CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. 220 Broadway, New York, October 24, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ABERDEEN & TOMBIGBEE VALLEY.—The title of Columbus, Memphis & Pensacola R. R. Co. has been changed to the Aberdeen & Tombigbee Valley R. R. Co., it is reported. The C., M. & P. Co. will build a line between Aberdeen, Miss., and Columbus, as noted on Aug. 22. Grading has commenced at Aberdeen. Right-of-way is nearly all secured. H. E. Reynolds is Pres., Columbus, Miss. (Noted on July 18.) C. B. Hopkins, Aberdeen, is Secy. V. M. Murphy is in charge of the work.

ALABAMA NORTHWESTERN.—H. L. Hunter, Secy. and Treas. of the Alabama Northwestern Ry. Co., Falkville, Ala., states that the line proposed is about 120 miles long from Gadsden, via Attalla, Walnut Grove, Brooksville, Eva, Falkville, Moulton and Tuscumbia, to the Tennessee River near Sheffield, Ala. Engineer not yet employed, nor is date set for opening construction bids. Noted on Sept. 26.

ATCHISON, TOPEKA & SANTA FE.—Application has been made to the Attorney General of Texas for his approval of an amendment to its charter providing for an extension of the Gulf, Colorado & Santa Fe Ry. from Center to Timpson, Tex., to connect with the Texas & Gulf. By the consolidation act of the last Legislature the Santa Fe is authorized to buy the Texas & Gulf, and to connect the same with its line running from Beaumont to Center. It is also authorized to extend the lines northward to a point on the Red River. As a matter of fact the Santa Fe under the law mentioned is obliged to build the line from Longview north to a point on the Red River, Longview being the northern terminus of the Texas & Gulf. The extension of this line north of Longview will not be undertaken, perhaps, for two or three years, but it is understood that the work of building the 18 miles of track between Center and Timpson will be begun within a few months. C. F. W. Felt is Ch. Engr. of the G. C. & S. F. at Galveston, Tex.

BALTIMORE & OHIO.—F. H. CLEMENT & CO., Land Title Bldg., Philadelphia, Pa., have been awarded the contract for extensive improvements on the main line between Altamont and Piedmont, W. Va. The contract will include the construction of a third track on the most dangerous grade on the road, known as the "17-mile grade," where many serious accidents have occurred.

BAMBERG, EHRHARDT & WATERBORO.—This company has been organized at Bamberg, S. C., by electing directors as follows: H. J. Brabham, G. Frank Bamberg, J. A. Wyman, Aaron Rice and J. F. Folk, of Bamberg; C. W. Garris, of Denmark; Dr. J. L. Copeland, H. A. Hughes and J. M. Dannelly, of Ehrhardt, S. C. Noted under South Carolina on Oct. 3 and Oct. 10.

BEAUMONT, SOUR LAKE & WESTERN.—It is announced that reconstruction work on the line between Beaumont and Sour Lake, Tex., 22 miles, is in progress. The line between Sour Lake and Houston, Tex., 64 miles, was completed in June, 1907, with the exception of a bridge across the Trinity River, which is still under construction. The road is to form a part of the line of the Colorado Southern, New Orleans & Pacific R. R., from Baton Rouge, La., to Houston, Tex. It is expected to have the line in operation about Jan. 1, 1908. R. C. Duff is Pres., Beaumont, Tex.

BEAUMONT & GREAT NORTHERN.—C. J. Rogan, Vice-Pres. and Gen. Supt., Onalaska, Tex., has stated that the grade between Onalaska and Livingston, Tex., 16 miles, has been completed and that the line from Livingston to Beaumont, Tex., 70 miles, is under survey. Track is being laid on the graded portion, two miles being completed to date. Contracts will be let about Jan. 1, 1908. William Carlisle is Pres., Atchison, Kan.; T. H. Clement is Ch. Engr., Onalaska, Tex.

BUFFALO, ROCHESTER & PITTSBURG.—Company has awarded a contract to THOMAS A. SHOEMAKER, of Bellefonte, Pa., for a second track from Brockwayville, Pa., to Carmen, the expenditure involved being about $900,000. The line from Punxsutawney to Ashland, where branches lead to Rochester and Buffalo, will then be double-tracked all the way. J. M. Floesch is Ch. Engr., Rochester, N. Y. Noted on Oct. 10.

CACHE VALLEY.—J. D. Goldman, Pres., 1125 Main St., St. Louis, Mo., advises us that no further extensions are contemplated for the present. Noted on Oct. 3.

CANADIAN PACIFIC.—Application may be made by this company to Parliament at its next session for authority to build a branch from Killam, Alta., northwest to Strathcona, Alta, about 80 miles.

CARONDELET & WEBSTER GROVES.—This company has been chartered with $200,000 capital to build a line from St. Louis to Webster Groves, Mo., eight miles. Headquarters are in St. Louis, Mo. The promoters are Willard E. Winner, formerly of Kansas City, but now of Webster Groves; J. G. Hughes and Edwin B. Winner, of Webster Groves; and A. G. Bodwell and Henry G. Pert of Kansas City.

COLUMBUS, MEMPHIS & PENSACOLA.—See Aberdeen & Tombigbee Valley.

DENVER, NORTHWESTERN & PACIFIC.—H. A. Sumner, Ch. Engr., Denver, Colo., states that the tunnel which the Continental Tunnel Co. was incorporated to build through the continental divide will be located 50 miles west of Denver at an elevation of 9,100 ft. and will be 6.04 miles long. The interest on the bonds will be guaranteed by the Denver, Northwestern & Pacific Ry. Co., and the bonds will be retired by that company at their expiration when the tunnel and its connecting lines will become a part of the Denver, Northwestern & Pacific system. The tunnel will shorten the present line of the Denver, Northwestern & Pacific 22.6 miles and will eliminate 3.3 miles of 2% grade and 28.3 miles of 4% grade now in use in the temporary line over the main range via, Corona. The officers of the tunnel company are: Thomas F. Walsh, Pres.; John W. Springer, First Vice-Pres.; Herbert George, Second Vice-Pres. and Gen. Mgr.; W. O. Temple, Secy.; W. E. Hughes, Treas.; and James H. Blood, Attorney, all of Denver, Colo. Noted last week under Miscellaneous Contracts.

DENVER & RIO GRANDE.—The Denver "Republican" states that surveyors have been placed in the field by the Denver & Rio Grande R. R. to make a permanent survey of a line from Chama, N. Mex., via Ojo Caliente to a junction with its present Santa Fe-Antonito line at Servilleta. The line is to follow the Chama River to El Vado, to which point a lumbering line has been built and is in operation to Lumberton, near Chama. The narrow gage line from Chamita to Servilleta is to be abandoned after this proposed line is built. The new road will give Santa Fe a direct line to Durango, Colo.

FENTRESS COUNTY.—W. W. Wood, Pres., Jamestown, Tenn., advises us that this railroad will extend from Johnson Stand (Maryland post-office), Tenn., via Jamestown, to Monticello, Ky., 72 miles. Surveys are made and right-of-way about 50% obtained. Capital is being secured. Noted on Aug. 29 and Oct. 3.

FRESNO FLUME & LUMBER CO.—C. B. Shaver, Pres. and Gen. Mgr., Clovis, Cal., states that this company has not yet incorporated, but is now operating about ten miles of line, which is a standard-gage logging railroad extending from its mills at Shaver Lake, Fresno County, Cal., back into this company's timber. Eventually this road will be from 20 to 25 miles long.

ILWACO.—This railway probably will be in operation by Jan. 1, as grading on this road, which extends from Holman, through Chinook, Ft. Columbia and McGowan to Cook's Inlet, Wash., 14 miles, has been practically completed. The grade is level and the maximum curves are six degrees. Fifty-six-pound rails are used. ERICKSON & PETTERSON, of Portland, Ore., are the contractors. George W. Boschke is Ch. Engr., Portland, Ore.

INDIAN TERRITORY.—S. M. Rutherford of Muskogee, Ind. T., one of the incorporators, states that the Falls Construction Co. is organized to build a railroad from Muskogee to Fort Smith, Ark. Excepting preliminary surveys, work will not begin before Jan. 1.

KANSAS & GULFPORT SHORT LINE.—This company has been chartered with $30,000,000 capital to build a line from Kansas City, Mo., to Port Lavaca, Tex., with a total of 1,500 miles of track. Incorporators are Jasper Ragsdale and Charles F. Bridge, of Topeka, Kan.; Fred A. Jerram, of La Junta, Colo.; Lewis E. Potts and J. B. Byrne, of Oklahoma City, Okla.

KENTUCKY.—A company, of which J. T. Edwards of Providence, Ky., is Pres., will build a railroad from Providence to Dawson, Ky., via Beulah, 19 miles, we are officially advised. Surveys are made and right-of-way is practically all secured. Capital for construction is being negotiated. D. R. Osburn is Ch. Engr., Corydon, Ky.

LLANO ESTACADO R. R.—A company has been organized under this title in Texas to build a line from Floydada, Tex., northwest to connect with the Atchison, Topeka & Santa Fe Ry. and probably further to connect with the Chicago, Rock Island & Pacific Ry. W. W. Massie is Pres. and Gen. Mgr.; A. B. Duncan, Vice-Pres.; W. T. Montgomery, Treas.; R. C. Scott, Secy.; R. C. Andrews, Solicitor. A. B. White, E. C. Henry, J. D. Starks, A. C. Bowers, R. A. Childers, W. W. Nelson and C. Surginer are also directors. Headquarters are at Floydada, Tex.

MICHIGAN CENTRAL.—An extension from Gaylord, Mich., to Johannesburg and to Hillman, is to be commenced at once. *G. H. Webb is Ch. Engr., Detroit, Mich.

MINGO & MONONGAHELA.—Incorporated in Pennsylvania with $120,000 capital, to build a 12-mile line from a connection with the Wheeling, Pittsburg & Baltimore branch

of the Baltimore & Ohio, about 700 ft. west of Thomas tunnel, to a connection with the Pittsburg, Virginia & Charleston branch of the Pennsylvania, 1,000 ft. southeast of Mingo creek crossing. S. J. Jones is Pres.; P. Moran, D. Thompson, R. H. Robinson, J. H. Gamble, and Wm. G. Parkinson are directors.

MISSOURI & NORTH ARKANSAS.—The M. & N. A. will be operating trains into Kansas City before Jan. 1. Construction between Seligman, Ark., and Neosho, Mo., is nearly completed. A joint traffic arrangement, which has been ratified, provides for the movement of trains between Neosho and Joplin over the tracks of the Kansas City Southern Ry. The road will come into Kansas City over one of the existing lines between Joplin and Kansas City, probably the Kansas City Southern Ry. tracks. The Missouri & North Arkansas is being extended south from Leslie, the present terminus, to Helena, Ark., by way of Little Rock. The extension between Harrison and Helena will be completed by next spring and 268 miles of track will be built. The road is now in operation from Seligman to Leslie, via Eureka Springs, Ark., a distance of 130 miles. W. S. Dawley is Ch. Engr., 820 Security Bldg., St. Louis, Mo. S. W. Lee is Consulting Engr.

NAPA, LAKEPORT & RICHARDSON BAY.—Concerning this railway, which was noted on Sept. 26, R. M. Hotaling advises us that it will be an electric line connecting the points named in the title. No definite details will be announced until next January or February.

ONTONAGON SOUTHERN.—This company has been incorporated in Michigan as a subsidiary line for the Wisconsin & Northern R. R., which now runs from Oshkosh, Wis., to Ontonagon, Mich. It is projected by the Menasha Woodenware Co. of Menasha, Wis., principally for the purpose of serving a large and well-timbered territory in the northern portion of Wisconsin and the northern and western portion of the upper peninsula. Statutory requirements make it desirable that the Michigan portion of the road should be incorporated as a separate railroad, and hence the Ontonagon Southern. The Wisconsin & Northern has about 50 miles of track laid north from Appleton to its junction with the Soo Line, and is already doing business. Its surveyors have already crossed the state line in Iron County, and have begun the survey for the Ontonagon Southern. The two roads will have approximately a total of 225 miles. C. H. Hartley is Gen. Mgr. of the W. & N., Oshkosh, Wis.

RADFORD & CAROLINA.—This company has been chartered in Virginia to build a steam railroad from Radford, Va., to the North Carolina boundary through Patrick, Floyd, Carroll, Pulaski and Montgomery Counties, in Virginia. Capital, $2,000 to $10,000. The incorporators are: J. J. Mott, Pres., Statesville, N. C.; J. Hoge Tyler, Vice-Pres.; R. L. Jordan, J. L. Vaughan; J. A. Baird, Secy.; Selden Longley and J. H. Carper, all of Radford, Va.

ST. LOUIS SOUTHWESTERN.—J. W. Maxwell, Gen. Supt., Tyler, Tex., is reported as saying that the company will spend over $500,000 for the construction of its proposed new freight terminal between Fifth and Sixth Sts. and from Terry to Harding St., in Fort Worth, Tex., about five blocks. M. L. Lynch is Ch. Engr., at Tyler, Texas.

SAN ANTONIO & MEXICO.—A charter will be applied for in Texas for this railway. This is the line being promoted by Uriah Lott, who built the San Antonio & Aransas Pass Ry. The incorporators of the new line are to be D. J. Woodward, J. E. Jarratt, John J. Stevens, George C. Vaughn; George W. West, Matt M. Washer, Harry Landa, Alex. Joske and Uriah Lott. The charter will provide for the construction of 560 miles of railroad, the main line extending from San Antonio to Brazos, Santiago, near the mouth of the Rio Grande, a distance of 200 miles. A branch will be built from Pleasanton to Eagle Pass and another from near Oakville, through Bee and Refugio Counties, to San Antonio Bay, a distance of 80 miles. Another branch is contemplated eastwardly through the north of Nueces County to Aransas Pass, a distance of 50 miles. Land owners along the main line have donated a bonus of $1 an acre, amounting to about $1,500,000.

SAN JUAN PACIFIC.—Incorporated in California, to build a railway from Hollister, in San Benito County, to Watsonville, in Santa Cruz County, via San Juan and Chittenden, Cal., with branches. The line will be 30 miles long. The company is capitalized at $1,500,000. The directors are: Charles F. Ladd, Portland, Gustav Baumann, H. P. Wilson, New York, and Frank C. Brown, V. Enginger, H. C. Stratton and Jesse W. Lilienthal, of San Francisco.

SOUTH CAROLINA.—W. Loring Lee, of Sumter, S. C., has surveyed line for an extension of the Betts Lumber Co.'s railroad.

WALKERSVILLE & IRELAND.—This company, recently chartered to build a lumber line from Walkersville to Marlinton, W. Va., has organized with the following officers: W. H. Bailey, Pres.; Harley Sawyer, Vice-Pres., both of Grafton, W. Va.; W. B. Mick, Secy.; W. H .Mick, Treas., both of Ireland, W. Va.; B. F. Bailey, of Grafton is Attorney. Noted on Oct. 10.

ELECTRIC RAILWAYS.

ADAMS, MASS.—The FRED T. ELY CONSTRUCTION CO., of Springfield, Mass., has been awarded contract for high tension line for the Berkshire St. Ry. Co. Cost, $65,000. Henry Gough, Pittsfield, Mass., is Ch. Engr.

PITTSFIELD, MASS.—The Pittsfield Elec. St. Ry. Co. has applied to the State Board of Railroad Commissioners for authority to build an extension of its line from West Pittsfield to Hancock, Mass., and Lebanon, N. Y. P. C. Dolan is Mgr.

ITHACA, N. Y.—We are officially advised that right-of-way has been secured and preliminary surveys run for an electric railroad to be built by the Ithaca & Seneca Falls Interurban Electric R. R. Co., from Ithaca to Seneca Falls, with a branch from Ovid to Willard; total length, 43 miles. The question of constructing a branch from Trumansburg to Mecklenburg is under consideration. The towns to be connected by this line are Ithaca, Trumansburg, Interlaken, Ovid, Lodi, Fayette and Seneca Falls. The capital has not been secured. Contracts probably will be let in the spring. Jacob Rothschild, Ithaca, is Pres.; J. N. Hammond, Seneca Falls, Secy.; F. M. Bush, Ithaca, Treas. John P. Gilbert, 1 Broadway, New York, is Consult. Engr.

PATCHOGUE, N. Y.—John E. Overton, of Port Jefferson (L. I.), N. Y., has been appointed Supt. of Const., it is reported, for the line to be built by the Suffolk Traction Co., between Patchogue and Port Jefferson, about 17 miles in length. Noted last week.

ATLANTIC CITY, N. J.—At a meeting of the Delaware River & Atlantic City Ry. Co. in Philadelphia on Oct. 15th, the following directors were elected: Walter N. Boyer, William J. Thompson, Gustavus C. Miller, E. E. Fennick, Gustavus A. Muller, Albert R. Talman, H. S. Scull, Louis Kuehnle, Richard Y. Filbert, Rudolph V. Kuser, C. P. Maloney and Joseph T. Sickler. Subsequently the directors organized by electing the following officers: Pres., William J. Thompson, of Gloucester City, N. J.; Treas., Gustavus A. Muller, Radnor, Pa.; Secy., Edward Butler. President Thompson announced that a new electric railway would soon be built, connecting Philadelphia and Atlantic City.

ALTOONA, PA.—F. G. Patterson, Pres. of the Altoona & Bedford Springs, Ry. Co., is reported to have stated that the work of grading for the line will begin within a few weeks. The line will be built first between Altoona and Newry.

WEST CHESTER, PA.—At a recent meeting of the Borough Council of West Chester, Pres. A. Merritt Taylor, of the Philadelphia & West Chester Traction Co., Arcade Bldg., Philadelphia, presented a plan for an electric freight line through that borough from Coatesville and Kennett Square to Philadelphia, under a joint arrangement of the Philadelphia & West Chester St. Ry. Co. Council granted authority to the P. & W. C. Traction Co. to connect its tracks with the tracks of the West Chester St. Ry. Co. at the Green Tree Inn, corner of Gay and High Sts., thus completing the trolley line between Philadelphia and Coatesville, and then on to Parkesburg in the western part of that county.

NEW CASTLE, PA.—Wylie McCaslin, Atty., has filed a certificate of extension for the Wampum & New Castle St. Ry. Co. The line is to cross the county bridge near Moravia, thence to West Pittsburg and from there to New Castle, entering the city by way of Pennsylvania Ave. The route in the city is over Reynolds, Phillips, Pollock and Pearson Sts.

FREDERICK, MD.—D. Columbus Kemp, Pres. of the Washington, Frederick & Gettysburg Ry. Co., Frederick, writes us that about two-thirds of the right-of-way has been secured and surveys made for the line between Frederick and Gettysburg, 30 miles. The line will be operated by steam until completed, when electricity will be the motive power used. No contracts have been awarded. Company has been building the line but may give out contracts later.

WINCHESTER, VA.—We are officially advised that survey is partly made for proposed electric railway for the Winchester & Washington City Ry. Co. Right-of-way is being secured. The line will be 85 miles long. Shirley Carter is Secy. Noted on Aug. 8.

VICKSBURG, MISS.—HOUSTON BROS., of Vicksburg, will construct an electric railroad from Walters to Vicksburg, Miss., along the National Cemetery road, as soon as the same is placed in repair by the Government. Congress at its last session authorized HOUSTON BROS. to construct this road and also appropriated $10,000 to place the National Cemetery road in repair.

CLEVELAND, TENN.—J. W. Adams and associates of Chattanooga, through James E. Mayfield, Attorney, have been granted a franchise for an electric railway in Bradley County.

ENSLEY, ALA.—The Ensley Street Ry. Co. has been incorporated to build a line in Ensley and adjacent territory. Capital, $25,000. The incorporators are: J. J. Walker, Pres. and Gen. Mgr.; H. S. Meade, Vice-Pres.; J. D. Matlock, Secy. and Treas.; and B. R. Pegram.

JACKSON, ALA.—The Jackson Light & Power Co., capital $16,000, has been organized to build a street railway and other public service plants. B. H. Warren is Pres.; S. H. Andrews, Vice-Pres.; S. A. Syewart, Secy.-Treas. Other directors are W. F. Monk, C. E. Mathers, A. Prim, A. M. Wing, Dr. L. O. Hicks and L. E. McLeod. The line may be extended finally from Jackson to Grove Hill, 17 miles. A dam will be constructed across Bassett's Creek. It is planned to develop 600 HP.

NEW DECATUR, ALA.—The North Alabama Traction Co. will spend $10,000 or more on the extension and improvement of its system in Decatur, it is reported. W. R. Hall is Gen. Mgr., New Decatur.

COVINGTON, TENN.—The Memphis, Covington & Northern Railway Co. was chartered last week in Tennessee. The company is capitalized at $14,000, with the following incorporators: G. B. Gillespie, John T. Garner, J. B. Witherington, W. M. Abernathy, H. N. Sullivan, C. H. Stovall, W. A. Black and R. W. Sanford. The purpose of the corporation is to construct and operate a street and interurban railroad in Covington and in the counties of Tipton and Shelby.

CARLISLE, KY.—The Kauffman-Shaw Construction Co., of Dayton, Ohio, has offered to build, equip and operate an electric railway from Salt Lick, by way of Owingsville and Sharpsburg, to Carlisle, Ky., 34 miles, provided Nicholas and Bath Counties will give $8,000 to the enterprise when the road shall be in operation.

CINCINNATI, OHIO.—It is announced that the survey of the proposed route of the Cincinnati, Reading & Middletown St. Ry. Co., which will operate 35 miles of traction line, from Middletown and Franklin to Bond Hill and Norwood, has been completed. Estimated cost of construction is $25,000 per mile, or a total of $875,000. The directors of the road are: Guy W. Mallon and Joseph Meyer, Cincinnati; Joseph Brinkman, W. S. Burkhart and Frank Koehler, Reading, Ohio; R. M. Billingsiea, Bethany, Ohio; W. Van Hise, West Chester, Ohio; G. A. Anderson, Monroe, Ohio; W. A. Wright, Mauds, Ohio; M. J. Browne and Thomas Anderson, Sharon, Ohio; W. A. Eudaly, Blue Ball, Ohio, and Frank M. Hughes, Hughes Station, Ohio.

Samuel F. George, Pres. of the Cincinnati, Dayton & Fort Wayne Ry. Co., Dayton, Ohio, advises us that private right-of-way has been secured and that surveys have been made for its proposed electric railway, which will connect Cincinnati and Dayton, Ohio, with Fort Wayne, Ind., 194 miles.

INDIANAPOLIS, IND.—The Grand Central Traction Co., which is preparing to construct an electric line from Indianapons to Evansville, has applied to the Board of Public Works for two franchises. The first for a private right-of-way to enter the city from the southeast along the J. M. & I. tracks to Iowa St. The other to enter the city over the local tracks to the traction terminal station in the same manner other traction lines are now operating in the city.

FOND DU LAC, WIS.—Permanent survey of the Milwaukee & Fox River Valley Electric Railway Co.'s line out of Fond du Lac has been started. The contract for the work has been let to the MILWAUKEE CONSTRUCTION CO. Alva J. Grover is Ch. Engr.

BOONE, IOWA.—Preliminary arrangements have been made by the Boone, Webster City & Northern Interurban Ry. Co., for building a line between Webster City and Boone, 31 miles. Capital, $600,000. Ultimately the railway will extend to Clarion. The officers of the company will be: Pres., E. E. Hughes, Pres. of the Boone National Bank; First Vice-Pres., F. A. Sackett, of Webster City; Second Vice-Pres., J. L. Goeppinger; Secy., J. S. Crooks, of Boone; Treas., J. H. Herman, of Boone. M. J. Riley and T. J. Jones, of Boone, and R. McFerren, of Webster City, are also interested.

MINNEAPOLIS, MINN.—E. W. Farnham, Pres. of the Twin City & Lake Superior Ry. Co., advises us that this company, recently incorporated to build a high-speed, third-rail interurban railway from St. Paul and Minneapolis to Duluth, Minn., and Superior, Wis., has graded 30 miles of line and expects to complete the first section of 49 miles soon after Nov. 1. Preliminary surveys are now in progress. The line as proposed will be about 130 miles long and will be operated by steam until motive power for the equipment of the road with the Farnham inverted third-rail system can be installed. By the building of this line a reduction of 30 miles will be afforded in the present rail distance between the points named. It is estimated that the road will cost $21,500 per mile, or a total of $2,775,500 when completed. The company is capitalized at $7,000,000, divided into 70,000 shares of $100 each. The executive officers of the company are in the Railway Bldg., Minneapolis. E. W. Farnham is Pres., Chicago, Ill.; W. H. Crossland, Vice-Pres.; F. L. Kidder, Treas., Minneapolis; S. A. Carlisle, Secy., Wyoming, Minn.

ST. LOUIS, MO.—The Industrial Trust Co. has been incorporated with a capital of $200,000. The company is formed for the purpose of taking over the Development Corporation of St. Louis and the Development Syndicate Co., of St. Louis. The new organization will be devoted to the promotion of investments in land. The former company has had the promotion of Brookings' farm, on Gravois Road, under way for some time. It is the purpose of the new company to push the development of this property. The company will also build and equip an electric railway, known as the St. Louis, Lakewood & Grant Park Ry., which will cover the territory in the vicinity of Brookings' farm. The new company also holds the Grant farm, on the River des Peres, south of Gravois Road. This will be made into a park, known as Grant Park. Willard E. Winner, Brookings' Farm, St. Louis, is Pres.; M. H. Waters is Vice-Pres.; J. G. Hughes is Secy. Noted on Sept. 12.

PINE BLUFF, ARK.—The Central Arkansas Electric Railway Co. will build its proposed line from Pine Bluff to a point near Sheridan, Ark., where it will branch, one line to run to Little Rock and another to Hot Springs, making a total of 90 miles. It is not expected to do any construction this year. Surveys are made and plans prepared. J. A. Holmes is Pres. and A. M. Van Auken is Ch. Engr. at Pine Bluff.

FORT WORTH, TEX.—SUDERMAN & DOLSON, contractors, of Houston and Galveston, Tex., have secured the contract for the grading of the Fort Worth, Weatherford & Mineral Wells interurban line. It will be about 60 miles long. Gid. R. Turner is the promoter. The cost will be about $30,000 per mile.

GREENVILLE, TEX.—J. T. Jones, Chn. of the Executive Committee, states, according to the "Manufacturers' Record," that "the proposed interurban railway from Greenville via Wolf City to Bonham is only in its primary stages. A civil engineer will be engaged immediately to survey and locate the line, which, it is expected, will occupy two or three months. When this is done the company will be incorporated, and it is intended to begin construction early next spring. The line will be about 35 miles long and will have local railways in each of the three cities. Noted on Oct. 10th.

STONEWALL, COLO.—Articles of incorporation for the Johnson Coal & Coke Co., with a capital of $50,000, have been filed at Denver; also incorporation papers for the Stonewall Valley Elec. R. R. Co., with a capital of $100,000. The incorporators for both concerns are P. M. Johnson, of St. Elmo, Ill.; Frank P. Read, Pres. of the Trinidad Elec. Co.; James McKeough, Atty. for the Victor Fuel Co., and J. C. Huddelson, Cashier of the First National Bank of Trinidad. The company intend[s] ...tending the electric road next spring ...g Cokedale through the Stonewall Valley ...o the Stone-wall Mountains, which will ... one of the finest summer resorts in ... part of the state.

MUSKOGEE, IND. T.—The ... Construction Co. has been incorpora... to build the proposed electric railway ... Muskogee Navigation Co., from Mus... via Webbers Falls and Tamaha, ... to Fort Smith, Ark. Capital, $2,5... The incorporators are S. N. Ru... Hill, J. M. Brogan and Ira ... d, E. A. Reeves, all of Muskogee.

MODESTO, CAL.—It is ... ed that the Board of Supervisors ... Stanislaus County has revoked the fra... given to W. A. Irwin to build an ... railway from Turlock to Irwin City ... south of Turlock. ...ew miles

OAKLAND, CAL.—Applica... has been made to the Board of Supe... by Ira A. Miller, Secy. of Wickham... Co., for a franchise to operate a... ric railway through Elmhurst. The... applied for will be a feeder to the O... Traction Consolidated's main line from ... land to Haywards.

A. W. Maltby, of Concord, ... reported to be working on a project to ... an electric railway from the ter... of the Key Route at Claremont thro... the Berkeley Hills to La Fayette, Wal... creek and Concord, and thence to Antioch, ... possibly Brentwood and Byron.

EDMONTON, ALTA.—The C... Council is considering a proposition to p...ase the franchise of the Strathcona St. ... system, it being the opinion of the coun... that the two systems can be operated m... cheaply as one concern.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

LIMERICK, ME.—The Limerick Water & Enterprise Co. will begin work next spring on a concrete dam which will be 20 ft. high. The dam will be five miles below this village on the Little Ossipee River and will develop 300 HP., partly for use at the Limerick mills and partly for other purposes. The cost is estimated at about $50,000. John F. Moore, Newfield, is Pres.; Charles J. Moulton is Treas.

PROVIDENCE, R. I.—The Rhode Island Co. is making plans for an increase in the capacity of the power house on Manchester St. The station was recently finished, but additional cars are to be put on the lines in about a year and it will be necessary to increase the power house capacity at once. Turbine engines are to be installed. A. E. Potter, Providence, is Gen. Mgr.; F. N. Bushnell is Ch. Engr.

STAMFORD, CONN.—Plans have been completed for a fireproof governor house for the Stamford Gas & Electric Co. Henry Marvin is Arch., 10 Burlington Arcade, Stamford; R. Crawford, Stamford, is Gen. Mgr.

ELLIS ISLAND (New York post-office) N. Y.—Bids are asked by Robert Watchorn, Comr. Immigration, Ellis Island, New York Harbor, until Oct. 28, for furnishing material and installing electric conduits and wiring in new dormitories, first and second cabin rooms and balcony, third floor main building at the U. S. Immigration Station, Ellis Island.

SYLVANBEACH, N. Y.—The Board of Trustees of Sylvanbeach has granted Peter Kippal, of Buffalo, a franchise to erect and operate an electric light plant in Carnival Park. Mr. Kippal will furnish electricity for lighting purposes to business places and residences. He also proposes to build a scenic railway on the park to be operated by electricity.

GLENS FALLS, N. Y.—It is stated that the International Paper Co. will construct a dam on its property about two miles south of Spier Falls. It will be built for the purpose of furnishing power for the electrical plant or pulp mill which the company will erect in that vicinity in the near future. The company owns more than 1,000 acres of land on both sides of the river a few miles north of Glens Falls, which is said to be adapted for power. Warren Curtis, Jr., Palmer, N. Y., is Supt. of Constr.

MOUNT UNION, PA.—The Mount Union Light & Power Co., of this city, has been incorporated to build and conduct an electric power plant which will cost $100,000. Scott Dibery, Johnstown, Pa., John L. Dickson and Thomas N. Kurtz, of this city, are the incorporators.

CONOWINGO, MD.—Plans are being made by capitalists, headed by James H. Harlow, Pres. of the Conowingo Bridge Co., for utilizing the Susquehanna River with construction of a dam to generate electricity to supply Baltimore, Philadelphia and other cities. The plant will be erected at Conowingo, near Havre de Grace, Md., about nine miles above the mouth of the river. The plant will have a capacity of 100,000 HP. The company is capitalized at $10,000, and bonds to the amount of $10,000,000 will be issued. The five turbines in the old paper mill will be used to generate electricity for lighting and operating purposes during construction work. An electric railway will be built from the reservoir site to Havre de Grace to handle material, etc, for construction work.

RICHMOND, VA.—Richmond Traction Co. has secured a permit to erect brick substation costing $7,500. JOHN T. WILSON has contract.

FREDERICKSBURG, VA.—We are officially advised that the Amburse Hydraulic Construction Co., 176 Federal St., Boston, Mass., has been employed to design and supervise the construction of a concrete-steel dam 22 ft. high and 750 ft. long, across the Rappanhannock River, near Fredericksburg, Va., for the Fredericksburg Power Co. Work will be commenced immediately.

ALBANY, GA.—The Albany Power Co. will invite proposals soon for construction of dam to develop power and power-house to be equipped with electrical machinery for generating and transmitting electricity at Porter Shoals on Flint River, near Albany, it is reported. The company plans to develop 12,000 HP. Alex. W. Smith, Frank L. Merrivine and E. M. Underwood are incorporators.

MONTGOMERY, ALA.—Montgomery Light & Water Power Co. will expend about $30,000 in improvements to gas plant, including installation of gas arch bench with six retorts for purifying the gas and increasing output and additional scrubbers and exhausters. The company will expend about $60,000 also in improvements to service between Montgomery and Tallassee, Ala., to include installation of additional transmission line from Montgomery to water-power on the Tallapoosa River, additional banks to step up and down transformers, improved lightning arresters, etc. R. J. Chambers, Montgomery, is Gen. Mgr.

LISBON, OHIO.—THE BECKER & SEIDEL CO. has secured contract for the steam and water piping for the new power station for the Youngstown & Ohio River R. R. Co. at West Point. The contract will amount to about $10,000. Charles S. Thrasher, Cleveland, is Gen. Mgr.

EVANSVILLE, IND.—Bids are asked until Oct. 28 by the Board County Commissioners for wiring the County Infirmary building. Harry Stinson is County Audr.

PRINCETON, IND.—We are officially advised that the PRACTICAL GAS CONSTRUCTION CO., North Chicago, Ill., has contract for constructing a complete gas plant in the B. M. A. addition, for the Consumers' Gas Co., J. H. Miller, Mgr. A. Bower is Gen. Mgr. of the construction company.

BERRIEN SPRINGS, MICH.—It is reported that contracts will be let soon for an electric light plant, consisting of 25 street lights, five miles of wire and equipment. A. B. Ayres is Pres. Bd. Trustees; A. J. Hammond, Consult. Engr., South Bend, Ind.

CADILLAC, MICH.—The Electric Land & Development Co. will construct a dam on the Manistee River. The chief engineer estimates that it will require 14 months to build this first dam, one of five to be built by the company. The company owns land along the river for 26 miles and the fall of the river in that distance is 126 ft.

MORLEY, MICH.—We are officially advised that the Morley Water Power Co., Morley, will construct a reinforced concrete spillway to cost about $4,000. It is the company's intention to do its own work. McVean & Northrup, 444 Houseman Bldg., Grand Rapids, Mich., are Des. Engrs.; L. Hardy is Secy.

GRAND RAPIDS, MICH.—The Board of Public Works is considering the proposition of installing additional power equipment at the municipal lighting plant. Steam, gas and electrical power are being considered. Samuel A. Freshney, Grand Rapids, is Mgr.

BURLINGTON, WIS.—The Citizens Gas Co. of Burlington has let the contract for the construction of the principal part of the gas plant for this city to the PRACTICAL GAS CONSTRUCTION CO., of North Chicago. The latter company secured the contract for installing all the machinery and appliances, and for the laying of about six miles of gas mains. The bids for the construction of the buildings were considered too high, and the local company will build these itself. It is estimated that the plant complete will cost about $40,000. The Practical Gas Construction Co. will begin work at once. The plant is to be completed by Jan. 1.

MILWAUKEE, WIS.—We are officially advised that plans and specifications have been prepared by R. W. Hunt & Co., the Rookery, Chicago, Ill., for the Milwaukee electric lighting plant, but bids have not been asked for by the Board of Public Works. It is not known at what time the Board will ask for bids. The estimated cost of the gas producer plant is $100,000 and of the engines, $400,000. Charles Poetsch is City Engr.

DES MOINES, IOWA.—Bids are asked until 11 a. m., Nov. 1, by John J. Boniface, Constr. Q. M., for installing electric light fixtures, installing watt meter board, and making service connections in the veterinary stable at Fort Des Moines.

AKRON, IOWA.—The voters of this town have decided to install a lighting plant, bonds to the amount of $10,000 being voted. Work will begin at once.

SULPHUR SPRINGS, ARK.—Smith & Powers, of Sulphur Springs, are preparing plans for electric light plant and waterworks system combined, to cost about $25,000.

SMITHVILLE, ARK.—The Arbuckle Mining & Milling Co., Binghamton, N. Y., it is reported, will build a dam on Strawberry Creek, near Smithville, to be 300 ft. long and 13 ft. high. Power will be used to generate electricity for use in crushing ore at various zinc mines, especially at Smithville and Calamine, Ark. The company proposes to construct another dam at Imboden on Spring River to furnish power for operating electric car line.

CHICKASHA, IND. T.—We are officially advised that work will start at once on construction of a dam near Chickasha for the Chickasha Water Power Co. The system will consist of 75 arc lamps of 2,000 (nominal) c.-p. and 3,000 incandescent lamps of 16 c.-p. The company will want two 500-HP. water wheels and two 500-HP. generators, 4,440-volt, 60-cycle, 3-phase, line, and lamps. C. E. Ross is Des. Engr.

PORTLAND, ORE.—See under Manufacturing Plants.

CHICO, CAL.—Bids are asked until Nov. 12 by L. D. McMacy, of Chico, for constructing an electric light and heating plant.

SAN BERNARDINO, CAL.—The Rialto Electric Light Co. is making plans to erect a substation in this city and a transmission line from the plant of the Edison Co. to connect with its system in this city. The company has elected the following officers: I. C. Boyd, Pres.; A. B. Paddock, Vice-Pres., and I. F. Martin, Secy.

LOS ANGELES, CAL.—A brick building to contain gas generating equipment is to be erected at 812 Center St., by the Los Angeles Gas & Electric Co., to cost $13,000. C. A. Lukenbach is Mgr. of Construction.

SAN JOSE, CAL.—We are officially advised that the Common Council will hold a bond election to decide upon constructing an electric lighting plant for street lighting and for lighting public buildings, including City Hall, Public Library, schools and fire houses. No commercial lighting will be undertaken. Bids for construction will be received within 60 days. The plant will be operated by steam and will consist of 400 arc lamps and 4,500 16-c.-p. incandescent lamps. Estimated cost, $200,000. C. H. Pieper is City Engr.; H. D. Mathews is Mayor.

It is reported that the National Park Electric Co. contemplates expending about $5,000,000 in construction of power plants. A. C. Kuhn, Charles J. Kuhn and Ralph Hersey, of San Francisco, are interested.

MONTEREY, CAL.—Extensive improvements and extensions are to be made to the power plant of the Monterey County Gas & Electric Co. at a cost of $100,000. B. W. Collins is Ch. Engr.

PHOENIX, ARIZ.—The Secretary of the Interior has awarded contracts for transformers and switchboard apparatus for use in connection with the Salt River irrigation project, Ariz., as follows: Transformers to the WAGNER ELECTRIC MFG. CO., 2017 Locust St., St. Louis, Mo., on Items 1 and 2. The amount of the contract is $23,970, with provisions for the acceptance of Items 1a and 2a, which are in the nature of an option to be exercised within two years from the signature of contract. Switchboard apparatus, to the GENERAL ELECTRIC CO., of Schenectady, N. Y.. The total cost of the instruments offered under this proposition is $37,671.

OROFINO, IDAHO.—Plans are being made for installing a water and electric light plant at Orofino at a cost of about $12,000. F. G. Lynch is interested in the project.

PORTAGE LA PRAIRIE, MAN.—The Directors of the Central Electric Light Co. have decided to expend $35,000 on enlarging the power plant. The company offers to double the number of street lamps if the town will extend the street lighting contract. John O'Brien is Mgr.; Adam Doum, Ch. Engr.

VANCOUVER, B. C.—The British Columbia Electric Railway Co. has decided to expend $1,000,000 for extension and improvements to its system during 1908. R. N. Sperling, of Vancouver, is Gen. Mgr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SYRACUSE, N. Y.—JOHN M. SCHULTZ has been awarded the contract, it is said, for the construction of a bridge over Oswego Canal at N. Salina St., at about $66,000.

NEWARK, N. J.—A bridge will be constructed over the Hackensack River for the New York & Greenwood Lake R. R. and the Newark branch of the Erie R. R., the contract for the superstructure of which has been awarded, it is said, to the AMERICAN BRIDGE CO., 42 Broadway, New York, and for the sub-structure to McMULLEN & McDERMOTT, 13 Park Row, New York.

WASHINGTON, PA.—Bids are asked until noon, Nov. 8, by the County Controller of Westmoreland County, at Greensburg, Pa., and by the County Commissioners of Washington County, Washington, Pa., for erecting a joint county bridge across the Monongahela River between Webster, in Westmoreland County, and Donora, in Washington County.

MAUCH CHUNK, PA.—Bids are asked until Nov. 7, by the Board County Commissioners, D. O. Straup, Chn., for constructing a new span in place of the eastern span on the East Mauch Chunk Bridge over the Lehigh River at Mauch Chunk.

STROUDSBURG, PA.—FINE & HARRIS, Land Title Bldg., Philadelphia, have been awarded the contract, it is said, by the Stroudsburg & Water Gap Electric Street Ry. for constructing a railway bridge across McMichaels Creek at S. 7th St., at $16,000.

JERSEY SHORE, PA.—The contract for the construction of a bridge across the east channel of the west branch of the Susquehanna River near Jersey Shore, bids for which were opened Oct. 8, has been awarded, it is said, to the YORK BRIDGE CO., York, Pa., at $54,945.

PITTSBURG, PA.—The Pittsburg & Lake Erie R. R. is contemplating the construction of a nine-track bridge, 125 ft. wide, over Main St. in the West End. J. A. Atwood is Ch. Engr.

INDIANA, PA.—Bids are asked until Nov. 1, by the County Commissioners, Indiana, Pa., for the construction of two steel highway bridges, having a clear span of 30 ft. with 34 ft. between the backwalls.

McKEES ROCKS, PA.—THE AMERICAN BRIDGE CO., 42 Broadway, New York, has been awarded the contract by the Pittsburg & Lake Erie R. R. for the construction of the superstructure of a two-track bridge over Chartiers Creek at McKees Rocks, at $30,000.

DAWSON, GA.—AUSTIN BROS., Atlanta, Ga., have been awarded the contract for constructing a steel bridge across Kinchofonee Creek, at $3,000.

PALATKA, FLA. — The CONVERSE BRIDGE CO., Chattanooga, Tenn., has been awarded the contract by the Commissioners of Putnam County for the construction of a highway bridge across the St. Johns River, at $54,000.

NATCHEZ, MISS.—Contracts aggregating $9,000 were awarded Oct. 7 by the Board of Supervisors for new bridges in Adams County.

GREENVILLE, MISS.—Bids are asked until noon, Nov. 4, by T. H. Hood, Clk. Bd. of Supervisors, Washington County, for the construction of a Ben bridge across Six Mile Bayou, in Washington County.

SPARTA, TENN. — THE NASHVILLE BRIDGE CO., Nashville, Tenn., has been awarded the contract by the Commissioners of White and Van Buren Counties, for the construction of a bridge at River Hill and Hodges's Ferry, at about $17,000.

DAYTON, OHIO.—LEWIS ARNOLD has been awarded the contract by the County Commissioners for the construction of the substructure of the Runk Bridge at $6.24 per cu. yd. The estimate of the engineer was $9.55 per cu. yd.

EATON, OHIO.—Bids are asked by C. W. Eidron, County Audr., until 1.30 p. m., Oct. 26, for the erection of a bridge across Elkhorn Creek, Jackson township.

RICHMOND, IND.—Bids are asked until 11 a. m., Nov. 9, by the Commissioners of Wayne County, for the construction of eight bridges, two in Center township, two in Wayne township and one each in Franklin, Harrison, Dalton and Jefferson townships.

DANVILLE, ILL.—JAMES GANOR, Danville, Ill., has been awarded the contract by the Commissioners of Newell township, for the construction of a bridge over Stony Creek, at $3,750.

CHICAGO, ILL.—Plans and specifications for constructing the substructure of the proposed bascule bridge, to be erected over the north branch of the Chicago River, near Kinzie St., are on file at the office of Engineering News, New York. Bids are asked until Oct. 26.

RACINE, WIS.—The Chicago & Northwestern Ry. will build a new modern steel bridge across the Brook River, and lay double tracks from the north end to the south end. Estimated cost, $40,000.

DES MOINES, IOWA.—Plans for a reinforced concrete viaduct across West Seventh St. are being prepared. Estimated cost, $175,000. George Dobson is City Engr.

SUNDANCE, WYO.—Bids are asked until noon, Nov. 5, by the County Commissioners for the construction of two steel bridges across the Belle Fourche River, one at the town of Hulett, Wyo., and one at the town of Moorcroft. L. Nauch is County Clk.

*GLENDIVE, MONT.—Plans and specifications for the construction and erection of 34 steel highway bridges in connection with the Lower Yellowstone Project, North Dakota-Montana, are on file at the office of Engineering News, New York. Bids are asked until 2 p. m., Nov. 15, by the U. S. Reclamation Service, Glendive, Mont. G. W. Woodruff is Acting Secy.

FORT SMITH, ARK.—A free bridge may be built between this city and Vanburen. Estimated cost, $300,000.

RICHMOND, TEX.—It has been decided by the Commissioners of Ft. Bend and Wharton Counties to construct a steel bridge across the Bernard River. Estimated cost, $10,000.

WACO, TEX.—We are officially advised that the Texas Central R. R. Co. has awarded the contract for two through plate girder bridges to the SOUTHWESTERN BRIDGE CO., Joplin, Mo.

LAWTON, OKLA.—The Board of County Commissioners awarded the following contracts, Oct. 12, for the 25 bridges, which are to be built in Comanche County: B. F. HELL, Hastings, eight bridges at $5,774; CANTON BRIDGE CO., Canton, Ohio, eight bridges at $12,374; MIDLAND BRIDGE CO., Kansas City, nine bridges, $11,834. John D. Kennard is City Engr.

PORTLAND, ORE.—See under Manufacturing Plants.

PORTLAND, ORE.—The Oregon R. R. & Navigation Co. will construct a double-decked steel suspension bridge next year, to take the place of the present steel bridge. Estimated cost, about $500,000.

Bids are asked until Nov. 15, by A. L. Barlus, City Audr., for the construction of a steel bridge on Union Ave. Douglas W. Taylor is City Engr.

OAKLAND, CAL. — THE BURRELL BRIDGE & CONSTRUCTION CO., 11 Front St., San Francisco, has been awarded the contract by the Board of Public Works for the construction of a concrete culvert in Glen Echo Creek Place and Bay Place, at $4,341.

SAN DIEGO, CAL.—The MERCEREAU BRIDGE & CONSTRUCTION CO., Los Angeles, has been awarded the contract by the Board of Supervisors for the construction of the Lakeside bridge, at $11,340.

TUCSON, ARIZ.—Plans for a wooden bridge to be constructed at the Oracle and Monmouth crossing will be prepared by W. C. Goetz, County Surv. Bids will probably soon be asked. Estimated cost, $5,000-$8,000.

CAMPBELLTON, N. B.—The construction of the bridge across the Restigouche River from this city to the Quebec side is assured. The structure will be 3,330 ft. in length and will connect the Atlantic, Quebec, Western & International Ry. Estimated cost, about $600,000.

CARMAN, MAN.—Bids are asked until noon, Nov. 8, by the Board of Public Works, A. Malcomson, Secy.-Treas., for the construction of a 90-ft. Pratt truss steel bridge with 18-ft. roadway, concrete abutments, to be built across the Boyne River near Carman.

WINNIPEG, MAN.—Bids are asked until noon, Nov. 1, by the Board of Control, for the construction of one second-hand single-track, through-truss, steel railway bridge, 155 ft. to 165 ft. single span. M. Peterson is Secy. Bd.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

MANCHESTER, N. H.—The Manchester Real Estate & Improvement Co. has been incorporated with capital stock of $250,000. The object of this company is to build in Manchester a theater, office and apartment building in Lowell St. Plans are already drawn, and arrangements for construction will be perfected at once. The building will be constructed of reinforced concrete with a concrete block frontage. It will have a frontage of 100 ft. on Lowell St. and a depth of 150 ft. Dr. A. Gale Straw, 1037 Elm St., is Pres.

BOSTON, MASS.—Plans for the elevated station in Forest Hills Sq. have been filed with the Railroad Commission. The station will consist of two platforms, with a line of double track between them, for elevated trains; and the same arrangement in the street for surface cars. The whole structure, roofed in, will be about 300 ft. long. The platform on one side will be 20 ft. wide, with four exit stairways in two groups. The other platform, for loading the trains, will be 45 ft. wide, and besides two stairways will have two escalators, to convey passengers mechanically from the surface-car platform up to the elevated level. An office, waiting-room and toilet rooms will be located at the northerly end of the loading platform. G. A. Kimball, Boston, is Ch. Engr. of elevated and subway lines, Boston Elevated Ry. Co.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 1, by the Department of Public Works, for erecting a 20-room brick school building in District No. 44, located on the corner of Broadway and Krupp St.; and for erecting an 18-room brick school building in District No. 58, located on the west side of Rother Ave., near Walden Ave. Francis G. Ward is Comr.

FORT JAY (New York post-office), N. Y.—We are officially informed that the following submitted lowest bids, on Oct. 15, for erecting post exchange here: Construction and electric wiring, Nicholas H. Trapp, 17 Thames St., New York; plumbing, John Wood, 95 Fourth Ave., New York; heating, Earl & Cook Co., 150 Nassau St., New York. Capt. James P. Harbeson is Q. M.

NEW YORK, N. Y.—Neville & Bagge, Archs., 217 West 125th St., New York, advise us that Daily & Carlson, 694 East 136th St., will erect a 6-story brick and stone apartment house at Broadway and 133d St. The building will measure 68.5x115 ft. and will cost $125,000.

Bids are asked until 11 a. m., Nov. 4, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus of additions to and alterations in Public School No. 29, on the west side of Washington St., between Albany and Carlisle Sts., Boro. of Manhattan; for completing and finishing the heating and ventilating apparatus in Erasmus Hall High School, on the east side of Flatbush Ave., about 205 ft. north of Grant St., Boro. of Brooklyn, in accordance with the original plans and specifications of contract awarded to Rossman & Bracken Co., which has been declared abandoned.

Plans are being drawn for improvement of the corner of St. Nicholas Ave. and 165th St., with an apartment building, to cost about $125,000. Murray & Hill, 617 West 130th St., are the owners, and J. C. Cocker, 103 East 125th St., is Arch. No contracts have yet been made for the construction work.

NEW YORK, N. Y.—We are officially advised that Maynicke & Frank, Archs., 298 Fifth Ave., have filed with the Building Superintendent plans for an office and store building to be erected on the site of Fifth Avenue Hotel. It is to be 14 stories and will take in the site of the Madison Square Theatre in 24th St. The building is to cost $2,000,000. H. C. & H. L. Eno are owners.

Plans for reconstructing the interior of the Queens County court house in Long Island City, which was destroyed by fire some time ago, will have to be modified before the work can be let. Bids for the reconstruction of the interior of the building were opened at the Queens Borough Hall Oct. 14. The only bidder was Charles Wille, 39 East 42d St., New York, whose bid was $294,460. As only $200,000 has been appropriated for the work, the bid will be rejected and the plans modified. Mr. Wille is now rebuilding the exterior of the court house under contract awarded to him several months ago. His bid for the exterior work was $237,000.

We are officially advised that the GEORGE A. FULLER CO., Flatiron Bldg., New York, has contract to erect a banking building, five stories high, at 250 Fifth Ave., for the Second National Bank. The first story will be built of stone and the upper stories of brick and terra-cotta. The site is 38 x 100 ft., and the ground area of the building will be the same. McKim, Mead & White, 160 Fifth Ave., are the Archs.

NEW YORK, N. Y.—The following bids were received Oct. 21 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus for addition to and alterations in (a) Public School No. 129, on north side of Gates Ave., 275 ft. west of Stuyvesant Ave., Boro. of Brooklyn; (b) in addition to Public School No. 59, on the south side of 57th St., about 100 ft. west of Second Ave., Boro. of Manhattan; and (c) for installing heating and ventilating and electric-generating apparatus and electric elevator in the Parental School, on the west side of road between Flushing and Jamaica, about 1,700 ft. south of North

Hempstead Turnpike, Flushing, Boro. of Queens: William J. Olvaney, 177 Christopher St., (a) $33,364, (b) $25,250, (c) $104,279; Gillis & Geoghegan, 527 West Broadway, (a) $26,965, (b) $20,865; G. A. Suter, 112 Wooster St., (a) $26,444, (b) $20,893; Frank Dobson, 319 East 53d St., (a) $27,829, (b) $20,925, (c) $07,930; E. Rutzler & Co., 127 White St., (a) $26,033, (b) $20,865, (c) $91,622; Blake & Williams, 211 West 20th St., (b) $20,892, (c) $94,981.

SYRACUSE, N. Y.—Frank C. Hamilton, 1718 West Genesee St., is promoting a combined hotel and office building, to cost $1,500,000. It is to contain quarters for the Syracuse Chamber of Commerce.

SYRACUSE, N. Y.—Plans are being prepared for erection of a hotel and office building, to cost $1,500,000. Frank C. H. Hamilton, 1718 West Genesee St., is interested.

ATLANTIC CITY, N. J.—H. A. Stout, Arch., Bartlett Bldg., Atlantic City, has prepared sketches and will start working on plans soon, for an 8-story hotel, 90 x 200 ft., on the beach front. Brick, steel, fireproof, ornamental terra cotta, will be used in construction. Cost, $150,000. The hotel will contain 135 bed rooms and bath rooms.

*ATLANTIC CITY, N. J.—Bids are asked until 8.30 p. m., Nov. 11, by the Streets, Walks and Drives Committee, at City Hall, Atlantic City, for erecting reinforced concrete public rest pavilion and comfort station, to be located on the outside line of the Boardwalk and New York Ave. William Riddle is Chn.; H. A. Stout, Bartlett Bldg., Atlantic City, is Arch.

EAST ORANGE, N. J.—We are officially advised that Edward V. Warren, Arch., 22 Clinton St., Newark, N. J., is preparing plans for a 4-story hotel, 50 x 130 ft., at Arlington Ave. and William St., East Orange, N. J., for Frank Leslie, 70 Hollywood Ave., East Orange. Brick and limestone will be used in construction, with hardwood finish, interior marble and tile work, oak and maple flooring. Cost, $125,000.

PRINCETON, N. J.—H. J. Hardenbergh, Arch., 1 West 34th St., New York, N. Y., has let general contract to GEORGE A. FULLER CO., New York, for erecting a physical laboratory for Princeton University, Princeton, at $500,000.

ALLEGHENY, PA.—We are officially informed that bids will be received in November for constructing a 2-story school building, with basement and sub-basement, for Tenth Ward, Allegheny. The structure will be constructed of brick, terra-cotta and concrete, 176 x 99.6 ft., and will cost $200,000. C. M. Barthberger & Son., Westinghouse Bldg., Pittsburg, Pa., are Archs.

PITTSBURG, PA.—The East End Y. M. C. A., Penn Ave., has secured a site and will raise funds at once for a $300,000 building. No architect has been selected. Wilfred W. Frey, Penn Ave. and Seventh St., Pittsburg, Pa., is interested.

It is stated that new bids will be received about Nov. 1 at the office of F. P. Booth, County Comptroller, for erecting the Allegheny County Soldiers' Memorial Building. Cost, about $850,000. J. G. Chalfant is County Engr.

PHILADELPHIA, PA.—Seymour & Paul A. Davis, Archs., 1600 Chestnut St., have awarded contract to H. A. HAVENS, Girard Bldg., for constructing a 2-story brick, stone and terra-cotta addition to college, at Tenth and Cherry Sts., for the Philadelphia College of Pharmacy.

FORD CITY, Pa.—W. G. Eckles, Arch., Lawrence Trust Bldg., New Castle, Pa., has been authorized to prepare plans for a public school building, which will be erected here next spring at a cost of approximately $100,000. It will be of brick and stone construction, with central heating and power plant.

ALLEGHENY, PA.—Charles Bickel, Arch., 524 Penn Ave., Pittsburg, is revising plans and will soon receive bids for a 10-story store building, 60 x 90 ft., to be built at Sandusky and Ohio Sts., Allegheny, for B. White, 202 East Ohio St., Allegheny. Press brick and stone are to be used in construction, with hardwood finish and floors, interior marble and tile, hard plaster, architectural and ornamental iron, composition roof, gas and electric fixtures, and plumbing. Cost, $150,000.

BALTIMORE, MD.—Wyatt & Nolting, Archs., Calvert and German Sts., will soon take bids on construction of children's hospital on the grounds of the Johns Hopkins Hospital, by the Trustees of the Harriet Lane Johnston estate. The building will have three stories; 204-ft. front, with wings on either side 117 ft. long, and will be of reinforced concrete construction. Cost, about $250,000.

*WASHINGTON, D. C.—Bids are asked until noon, Nov. 2, by the District Commissioners for construction to the addition to the McKinley Manual Training School.

ATLANTA, GA.—It is reported that city officials and Fulton County Commissioners, Clifford L. Anderson, Chn., contemplate erecting jointly a city hall and county courthouse, to cost $1,000,000.

CHATTANOOGA, TENN.—A company has been organized by C. M. Preston, G. B. Glenn and others, for a hotel to be erected, at a cost of $150,000. J. A. Wardlaw is Temporary Secy.

NASHVILLE, TENN.—A building permit has been issued for construction of the proposed Criminal Court and jail for Davidson County, and twelve months is stipulated as the time for completion. The amount of the cost of the structure, as stated in the permit, is $169,000. Wheeler, Runge & Dickey are Archs.

MEMPHIS, TENN.—The following are the bids received Oct. 7, it is reported, by the Board of Education for erecting a school on Carr Ave. and one on Mahoon Ave. Bids are on both buildings as a total: Selden-Breck Construction Co., $131,688; C. J. Wagner & Co., $129,500; A. W. Geettingly, $129,494; McKnight & Barker, $125,472.

CLEVELAND, OHIO.—The Anshe Chesed congregation has decided to erect a synagogue on Euclid Ave. and East 82d St. Cost, $200,000.

DAYTON, OHIO.—We are officially advised that bids will be received by the Board of Education, about Nov. 21, for erecting a 4-story fireproof, steel and tile or reinforced concrete manual training school, 70 x 233 ft., with press brick and stone or terra-cotta trimmings. The building will cost $120,000, and the equipment $30,000. Charles I. Williams, Callahan Bldg., is Arch.

CINCINNATI, OHIO.—Bids are asked until Nov. 11 by the Board of Education for erecting a fireproof 2-story brick, stone and concrete school building, to cost $160,000. The school will be 224 x 134 ft. Garber & Woodward, Neave Bldg., are Archs.

Samuel Hannaford & Sons, Archs., Hulbert Block, have been retained to prepare plans for a 3-story and basement brick college building for the St. Xavier College. Rev. A. A. Dierkes is Pastor. Estimated cost, $200,000.

HAMILTON, OHIO.—The contract for construction complete of the U. S. public building at Hamilton has been awarded to BARNES BROS., of Marion, Ind., at $108,000 less for alternate B $2,600 and alternate C $17,000. Time to complete, April 1, 1909.

MARION, IND.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 20, for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Marion.

CHICAGO, ILL.—Richard E. Schmidt, Garden & Martin, Archs., Teutonic Bldg., 172 Washington St., have prepared plans for a mercantile building to be built at the corner of State St. and Harmon Court for Carl Buhl, Vice-Pres. of the Schoenhofen Brewing Co., 18th St. and Canalport Ave. It will be 11-story, 80 x 138 ft., of reinforced concrete construction, have pressed brick piers at the corners of the building, and across the front, parallel with the floors, will be paneled concrete spandrels. It will have concrete and composition roof, steam heat, electric light, structural iron work, and will cost about $300,000. It is to be ready by Oct. 1, 1908.

The following contracts have been let by Pond & Pond, Archs., 17 East Van Buren St., for erecting a training school and office, at 30th St. and Vernon Ave. for the Women's Baptist Home Mission, Mrs. A. G. Lester, Pres., 2411 Indiana Ave.: Masonry, ARTHUR MEAGHER, 226 La Salle St.; carpenter work, WILLIAM McCUMBER, 112 Clark St. Building will have three stories, 210 x 103 ft. Cost, $125,000.

CHICAGO, ILL.—Shepley, Rutan & Coolidge, Archs., Old Colony Bldg., are preparing new plans for a memorial library building to be built on the campus of the University of Chicago in memory of William Rainey Harper, the founder of that institution. The building, as it is now being planned, will cost from $600,000 to $700,000. It will be 4-story, of fireproof steel construction, with exterior probably of Bedford stone and tile roof.

Charles F. Hermann, City Arch., is working on plans for a 3-story police station, to be erected at 115th St. and Indiana Ave., at a cost of $175,000. It will extend over 85 x 175 ft. and will be constructed of pressed brick and stone.

Dr. F. Ziegfeld, Pres. of the Chicago Musical College, 202 Michigan Ave., it is stated, has secured a site at 246 Michigan Boulevard, on which it is proposed erecting a theater to cost about $500,000.

DECATUR, ILL.—Contracts have been awarded as follows, for erecting the Pythian Home for the Aged in Decatur, bids for which were received Oct. 12: General contract to GRAFF & DOERR CONSTRUCTION CO., of La Crosse, Wis., $107,295; electric work to DECATUR ELECTRICAL SUPPLY CO., Decatur, $1,598; gas, sewerage and water plumbing to FIELD & SCHOEB, Decatur, $3,332; heating plant to JOHN & KOEHNLY, of Lincoln, Ill., $15,778.

PEORIA, ILL.—Bids were received as follows, Oct. 17, at the office of the Supervising Architect of the Treasury, Washington, D. C., for the construction of an extension and remodeling of the post-office building at Peoria, Ill.: V. Jobst & Son, Peoria, $201,400; General Construction Co., Milwaukee, Wis., $176,623; Peoria Stone & Marble Works, Peoria, $217,000; W. M. Allen Sons & Co., Peoria, $212,500. Time of completion, July 1, 1909.

CHIPPEWA FALLS, WIS.—Plans have been prepared by Claude & Starke, Badger Annex, Madison, Wis., for the erection of a sanitarium, to cost $250,000. Plans have been approved by the Progressive League.

LA CROSSE, WIS.—Van Ryn & De Gelleke, Archs., 211 Grand Ave., Milwaukee, have completed plans for a 3-story normal school building, to be built at La Crosse, for the State Board of Control, Madison. Cost, $200,000.

DES MOINES, IOWA.—Bids were received as follows Oct. 22 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office building at Des Moines, Iowa: Charles Weitz Sons, Des Moines, $398,587; Paul Riesen's Sons, Milwaukee, $367,793, 24 months; J. A. McGonigle, Fort Leavenworth, Kan., $444,650; John Peirce Co., 90 West St., New York, $405,693, 24 months; P. M. Hennessey Construction Co., New York Life Bldg., St. Paul, Minn., $395,975; Charles W. Gindele Co., 3333 La Salle St., Chicago, $372,925; Northern Construction Co., Milwaukee, Wis., $374,980. Time of completion, Oct. 31, 1910, unless otherwise specified.

KANSAS CITY, MO.—Howe, Holt & Cutler, Archs., 315 East Tenth St., are preparing plans, it is stated, for a 3-story and basement hospital building for the Sisters of Mary, St. Mary's Hospital. Estimated cost, $250,000.

ST. LOUIS, MO.—Architects have been commissioned to submit plans for the trades school which has been endowed to the extent of $1,000,000 by David Ranken, Jr. It will be known as the David Ranken, Jr., School of Mechanical Trades and will be erected at Newstead, Cook and Finney Aves.

The Shisler-Bidwell Building Co. is having plans prepared by Charles H. Deltering, Missouri Trust Bldg., for erection of apartment house, four stories high, 230 x 74 ft. Cost, $200,000.

The Silburn Realty Co. has had plans prepared by Mauran, Russell & Garden, Chemical Bldg., for erection of store and office building, 18 stories, 86 x 127 ft.; brick, stone, reinforced concrete, terra-cotta construction, to cost $700,000.

*NEVADA, MO.—Bids are asked until 3 p. m., Dec. 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Nevada.

EXCELSIOR SPRINGS, MO.—Bids are asked until Oct. 27, by Louis G. Curtis, 1114 McGee St., Kansas City, Mo., for superstructure for 4-story hotel, with three wings, 200 ft. long, for the Elms Realty Co., E. J. Becker, Secy., Excelsior Springs. Estimated cost, $200,000.

SAN ANTONIO, TEX.—The San Antonio Hotel Co. has awarded contract to WESTLAKE CONSTRUCTION CO., 717 Locust St., St. Louis, Mo., for erection of an 8-story hotel after plans by Mauran, Russell & Garden, Chemical Bldg., St. Louis, Mo. Cost, $650,000.

FORT WORTH, TEX.—St. Louis Southwestern Ry. Co. is reported to have decided to expend about $500,000 in establishing proposed freight terminals at Fort Worth, improvements to include grading, yard tracks, 2-story brick freight warehouse, steel spans on concrete masonry piers and abutments across Trinity River. M. L. Lynch, Tyler, Tex., is Ch. Engr.

OKLAHOMA CITY, OKLA.—The Board of Education will erect school building, for which between $200,000 and $500,000 of bonds will be issued. Frank J. Merrill is Pres.

SPOKANE, WASH.—It is reported that the Palace Store, to be built by Mrs. R. Well at Main Ave. and Post St., will be six stories high, 113 x 142 ft., the cost being $175,000, exclusive of the site, which cost $127,000. The building must be ready for occupancy within a year. The structure will be of steel and slow-burning construction. It is being erected by the Lincoln Investment Co.

BREMERTON, WASH.—Victor H. Metcalf, Secy. of the Navy, Washington, D. C., is stated to have approved the plans for the construction of a permanent hospital at the Puget Sound Navy Yard, Washington, at a cost of $150,000, also plans for extensive improvements to the steam engineering department of the yard. Gen. George F. Elliott, head of the U. S. Marine Corps, Washington, is stated to have approved plans for a new marine barracks, also at Puget Sound Navy Yard, to cost about $150,000.

SEATTLE, WASH.—A 5-story building, to cost $150,000, is to be erected soon by the Salvation Army on the site of the present headquarters, at Fifth Ave., South, and Washington St. Brig. W. F. Jenkins is in charge of the Northern Pacific province.

SACRAMENTO, CAL.—Plans are being prepared by R. A. Herold, Brythe Bldg., for a new county court-house and jail for Sacramento County, to cost $660,000.

LOS ANGELES, CAL.—It is reported that F. G. and P. F. Schumacher, 225 West Second St., and Philip Wilson, proposed erecting a theater on Main St., to cost about $250,000.

BOISE, IDAHO.—We are officially advised that Wayland & Fennell, Sonna Bldg., are preparing plans for a 3-story court-house and jail, 250 x 100 ft., for Ada County. Cost, $400,000. Building will be constructed of marble and steel.

PORTAGE LA PRAIRIE, MAN.—Plans are being prepared at the Department of Public Works, Winnipeg, Man., for a new reformatory to be erected here, at an approximate cost of $180,000. Hon. Robert Rogers is Minister of Public Works, Winnipeg.

WINNIPEG, MAN.—The contract for the excavations for the union depot to be erected here by the Canadian Northern Ry., has been awarded to S. BROWN, of this city. The work involves the removal of about 50,000 sq. yds. of earth, covering an area of 92,000 sq. ft. and going down to a depth of 13 ft. M. H. McLeod, Winnipeg, is Ch. Engr.

The Winnipeg Pain & Glass Co., Ltd., 179 Notre Dame St., East, will rebuild building lately destroyed by fire at a loss of $300,000. E. Cass is interested.

CALGARY, ALTA.—The plans of Lawson & O'Mara, Calgary, have been selected by the City Council for the proposed hospital to be erected here. Estimated cost, $140,000.

MEDICINE HAT, ALTA.—The Department of Public Works, Ottawa, Ont., has awarded the contract for an armory to be erected here, to ARTHUR BURNS, of this city. Price, $160,000. Fred Gelinas is Secy. of the Dept. of Public Works.

BANFF, ALTA.—The Canadian Pacific Ry. hotel here will be enlarged, at an estimated cost of $200,000. Hayter Reid is Supt. of Canadian Pacific Ry. hotels, Montreal, Que.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

NORTHBORO, MASS.—The contract for cleaning the town reservoir has been awarded to AUGUSTUS SCOCIER, South Framingham, at 46 cts. a cu. yd. for all excavations, no allowance for shrinkage.

FALL RIVER, MASS.—The following bids were received by the Watuppa Water Board for 1,600 ft. of 12-in. pipe, 85 lbs. to the foot: Lynchburg Foundry Co., New York City, $38 per ton of 2,240 lbs., to be delivered at the Watuppa R. R. station. United States Cast-Iron Pipe & Foundry Co., New York City, $32 per ton of 2,000 lbs., to be delivered at any railroad station in Fall River designated by the Board. Iron Co., Emaus, Lehigh County, $32 per ton of 2,000 lbs., delivered at station in Fall River. Warren Foundry & Machine Co., New York City, $32 per ton of 2,000 lbs., delivered at the Watuppa R. station. M. J. Drummond & Co., New York City, $38 per gross ton of 2,240 lbs. R. D. WOOD & CO., Philadelphia, Pa. (awarded contract), $32 per gross ton, delivered at Watuppa R. R. station.

BUFFALO, N. Y.—Bids for the [illegible] of four 600-HP. boilers, with [illegible] and equipment, have been received as follows: Heine Safety Boiler Co., $40,350; Parker Boiler Co., $47,628. A bid of $28,7[illegible] was received from the Franklin Boiler Co. [illegible] was not considered, as specifications not followed.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Nov. 12, by Commissioner of Indian Affairs, for the construction of completion of a stone warehouse with [illegible] gas-piping, a stone hospital with [illegible] steam heat and gasoline gas-piping, and a tank and tower for improvements [illegible] Pipestone, Minn.

Bids are asked until 2 p. m., Nov. 7, by the Commissioner of Indian Affairs, for the construction and completion of certain improvements to the water system at School, Chilocco, Okla.

BLACKSTONE, VA.—A reservoir with a capacity of 250,000 gals. will be built by this city. One and one-half miles of waterpiping will be laid. Bids are asked. John W. Hays, Petersburg, Va., is Engr.-in-Charge.

ATLANTA, GA.—Bids will probably soon be asked for a 20,000,000-gal. and a 2,000,000-gal. centrifugal pump, and other pumps. Frank Rice is Pres. Water Bd.

*FORT MORGAN, ALA.—Bids are asked until 2 p. m., Nov. 14, by Capt. L. F. Garrard, Fort Morgan, Ala., for the construction of buildings for pump-house, installing two horizontal tubular boilers, 50-HP., two compound duplex pumps, ice plant and cold storage.

GREENFIELD, IND.—Bids are asked until Oct. 28 by W. E. Elsbury, Township Trustee, for enlarging and improving Walker Ditch in Center Township.

TIPTON, IND.—Bids are asked until 1 p. m., Nov. 2, by the Commissioners of Tipton County for the construction of 9,800 ft. of tile ditch, ranging from 8 ins. to 16 ins. P. O. Duncan is County Engr.

WINNETKA, ILL.—A new waterworks plant is planned, the present equipment being inadequate. It is proposed to install a gravity filter system. Experts are at work on the figures and plans and the necessary building work probably will begin in the spring.

DUQUOIN, ILL.—WILLIAM TUNNEY, Joliet, Ill., has been awarded the contract by the city for the construction of a complete system of water mains, at $48,295.

CHICAGO, ILL.—Bids are asked until 10.15 a. m., Oct. 28, by the Board of Local Improvements, for water service pipes in various streets.

LOCKPORT, ILL.—The bids opened Oct. 7 by the City Council for the construction of five blocks of water mains on Hamilton St. were as follows: William O'Connell, main, 66 cts. per ft.; hydrants, $28 each; cross tees, etc., 3 cts. per lb. Daniel Sullivan, main, 80 cts. per ft.; hydrants, $30 each. Henry Landon, main, 80 cts. per ft.; hydrants, $34 each. William Moran & Co., Joliet, main, 79 cts. per ft.; digging and refilling, 29 cts. per ft.; hydrants, $41 each.

STILLWATER, MINN.—The contract for the construction of the sewer and water system for the new state prison has been awarded by the State Board of Control, P. M. Ringdahl, Chn., St. Paul, Minn., to W. C. FRASER, Rochester, Minn., at $15,000.

KEARNY, NEB.—Plans for the proposed water system have been completed. Estimated cost, $98,000. George E. Ford is City Clk.; C. A. Edwards is City Engr.

VELVA, N. DAK.—Bids are asked until Nov. 12, by S. M. Jones, City Audr., for a water-works system, including a concrete reservoir, gravity pipe line, and gasoline engine power.

BELLE FOURCHE, S. DAK.—DEVORE BROS. & FARLAY, Vale, S. Dak., have been awarded the contract by the Secretary of the Interior, for constructing and completing a portion of the South Canal, Belle Fourche Irrigation Project, S. Dak., at $103,500.

SHERIDAN, WYO.—Bids are asked until 10 a. m., Nov. 14, by Capt. William D. Davis, Q. M., U. S. A., for constructing an 8-in. cast-iron water main from the U. S. reservoir to Fort MacKenzie, Wyo., together with connection to post distributing system.

NIXON, TEX.—This city will probably have water-works and another artesian well, in the near future.

DENNISON, TEX.—Within the next six months the Dennison City Water Co. will make improvements to its plant. New machinery to be installed at the reservoir and plant will include a 3,000,000-gal. triple-expansion pump of the latest pattern, a 150-HP. boiler, and a filtering plant. W. W. Berry is Gen. Supt.

GREELEY, COLO.—The March reservoir, which will have a capacity of 323,000,000 cu. ft., will be built by O. J. March, W. H. Kinsella, O. R. Keree, J. Brown and Maj. Charles Townsend.

ABERDEEN, WASH.—This city will erect a pumping station and lay a pipe line 8½ miles in length, to bring water to the town, furnishing 3,000,000 gals. daily. Estimated cost, $100,000. H. W. Troutman is City Engr.

SEATTLE, WASH.—Bids were received as follows on Oct. 12 by the Board of Public Works for construction of Harvard Ave. pipe line sewer: International Contract Co., New York Block, Seattle, $31,817; Sanfield & Gifford, 701 Belmont Place, Seattle, $33,298; Independent Asphalt Paving Co., Pioneer Bldg., Seattle, $31,000.

*TUCSON, ARIZ.—Plans and specifications for proposed water-works system to be constructed here, are on file at the office of Engineering News, New York. Bids are asked until Nov. 4 by Frank S. Treat, City Recdr. E. C. Dietrich is City Engr.

KENORA, ONT.—A by-law to provide $75,000 for additional expenditure on the construction of the water-works and power plants was passed by the city. C. S. Draper, Kenora, Ont., is interested.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

MILFORD, MASS.—BRUNO, SALOMONE & PETRILLI, Boston, have been awarded the contract by the Sewerage Commission for the construction of the low level sewer, at $16,155.

AUBURN, N. Y.—Bids are asked until 8 p. m., Nov. 5, by the Common Council for the construction of a vitrified tile sewer in Beach Ave. J. S. Hanlon is City Clk.

*WHITE PLAINS, N. Y.—Plans and specifications for Bronx Valley sewer system are on file at the office of Engineering News New York. Bids are asked until Nov. 7.

*RIVERSIDE, N. J.—Bids are asked until 8 p. m., Nov. 1 by Irven Kollo, Township Clk., for the construction of a sewerage system, consisting of approximately, ten miles of sewers, 8 in. to 24 in. in diameter; pumphouse, engines, pumps, pump-well and disposal works. William H. Boardman is Town Engr.

ELIZABETH, N. J.—J. J. POTTS was awarded the contract Oct. 15, by the City Council, for a sewer to be constructed in Jacquest St., from East Jersey to East Grand Sts., at $8,580.

*ARDMORE, PA.—Bids are asked until Oct. 31 by R. A. Warner, Supt. of Health and Drainage, Ardmore, Pa., for the construction of 1,575 ft. of 8-in. terra-cotta sewer on Lehigh Ave.

WILLIAMSPORT, PA.—The following bids were opened by the Highway Commissioners Oct. 11, for the storm water sewer in the bed of Grafius Run from Court St. to East Fourth St., with (A) brick construction, (B) concrete construction: (A) Busch & Stewart, $11,044; (A) Coryell Construction Co., $10,520. (B) Busch & Stewart, $10,559; (B) Coryell Construction Co., $10,269.

MADISON, GA.—Bonds for $50,000 have been voted by the city for the construction of a sewer system, etc.

*HATTIESBURG, MISS.—Bids are asked until 8 p. m., Nov. 7, by the City Clerk, for the construction of sanitary sewers, according to the following statement of quantities of work: 2,640 lin. ft. 15-in. sewer, 2,090 lin. ft. 12-in. sewer, 8,550 lin. ft. 10-in. sewer, 15,150 lin. ft. 8-in. sewer, 90 manholes, 7 flush tanks, 20 cu. yds. concrete masonry, 900 cu. yds. excavation, 140,000 ft. B. M. sheeting left in trench, 45,000 ft. B. M. foundation lumber. J. H. Putnam is City Engr.

PADUCAH, KY.—All bids have been rejected by the Board of Public Works as too high for the construction of about 14 miles of 6-in. vitrified pipe sewer laterals. L. A. Washington is City Engr.

MIAMISBURG, OHIO.—WILLIAM A. HILT, Dayton, has been awarded the contract by the city for the construction of a storm sewer in Central Ave. and Second St., to connect with the Linden Ave. sewer, at $6,508.

STEUBENVILLE, OHIO.—JAMES FERRY & SON have been awarded the contract by the Board of Public Service for the construction of the Clinton St. sewer, at $8,907.

COLUMBUS, OHIO.—D. W. McGRATH has been awarded the contract by the Board of Public Service for the construction of the East Side sewage pumping station, at $18,373.

TOLEDO, OHIO.—Bids are asked until noon, Oct. 28, by the Board of Public Service, for the construction of the extension of Main Sewer No. 8. Reynold Voit is Secy. Bd.

CHAGRIN FALLS, OHIO.—We are officially advised that bids are asked until noon, Nov. 9, by H. D. Bishop, Clk. of the village, for the construction of a sewerage system and sewage purification plant. The bids received on Oct. 14 were all rejected.

DELAWARE, OHIO.—The only bidder for the construction of the sewage disposal plant for the Girls' Industrial Home, was the Pitt Construction Co., Fulton Bldg., Pittsburg, Pa., at $15,000.

GIRARD, OHIO.—We are officially advised that bids are asked until Nov. 5 by E. L. Hauser, Clk. of the village, for 5,600 lin. ft. of 18-in. pipe sewer, average cut about 15 ft.

LINTON, IND.—The contract for the construction of a sanitary sewer here was awarded to STENHARD & MORGAN, at $61,000.

INDIANAPOLIS, IND.—Charles A. Brown, Assistant City Engr., is preparing plans for a new sewer, to be nearly 1½ miles in length. Estimated cost, $10,000. Blaine H. Miller is City Engr.

INDIANAPOLIS, IND.—Bids are asked until Oct. 28 by the Board of Public Works for the construction of a sewer in Washington Boulevard from 34th St. to 38th St., and for the construction of a sewer in the first alley west of Arsenal Ave., from Michigan to Vermont Sts. Blaine H. Miller is City Engr.

LINCOLN, ILL.—Bids are asked until 2 p. m., Oct. 25, by the Board of Local Improvements for the construction of a 15-in. vitrified pipe sewer with accessories, on North Kankakee St., about 3,045 ft. in length. Charles E. Barrow is Clk. Bd.

IOWA CITY, IA.—Bids are asked until 2 p. m., Nov. 1, by O. J. Slater, City Clk., for the construction of a combined sewer, requiring approximately 420 ft. of 15-in. vitrified sewer pipe, two combined manhole and catch-basins and one storm-water inlet (labor only).

ST. PAUL, MINN.—RYAN & JOHNSON have been awarded the contract by the Board of Public Works for the construction of a sewer in Sturgis St. from Douglas to Western Sts., at $4,170.

ABERDEEN, S. D.—Bids are asked until 8 p. m., Oct. 28, by F. W. Raymond, City Audr., for the construction of any and all of the sewers ordered by the City Council.

BILLINGS, MONT.—NICK. HUGHES has been awarded the contract by the city council for the construction of a sewer in North Billings at $83,837. Henry Gerharz is City Engr.

HOLLY, COLO.—Plans are under way for the construction of about five sewers, with the necessary laterals so as to facilitate the use of this system in all parts of the city. Estimates were received Oct. 12 by the Town Board and considered. Estimated cost, about $25,000.

SEATTLE, WASH.—The only bid received on Oct. 12 by the Board of Public Works for construction of the Green Lake District of the North trunk sewer was submitted by the James Black Masonry & Construction Co., of Seattle, at $993,036. Itemized bid is given under contract prices in this issue. (No bids were received for this work on Sept. 7.

Bids on Lake Union District will be asked for in about two months by the Board of Public Works, to be followed with three other districts. Total estimated cost of whole improvement, $3,500,000.

SEATTLE, WASH.—Bids are asked until Nov. 2 by the Board of Public Works for constructing a sewer in Eleventh Ave. West. C. B. Bagley is Secy. Bd.

LOS ANGELES, CAL.—A. P. PUSICH has been awarded the contract by the Board of Public Works for the construction of the sewer in Denber St. from 39th to 38th Sts., at $41,700. The contract for the Leoli Ave. sewer has been awarded to B. M. SHERER, at $42,830. H. B. Ferris is Secy. Bd. H. G. Parker is City Engr.

OAKLAND, CAL.—The contract has been awarded by the Council to MICHAEL MURPHY, for the construction of the 19th St. sewer at the following prices: for furnishing and laying 8-in. pipe, $1 per lin. ft.; for furnishing and laying "Y" branches, $1 each extra; for constructing brick manholes with covers, complete, $63 each; also for the construction of the Cameron St. sewer at the following prices: for laying 8-in. pipe, 98 cts. per lin. ft.; for furnishing and laying "Y" branches, no charge; for constructing brick manholes with cover, complete, nothing; also for the construction of the Duncan St. sewer at the following prices: for furnishing and laying 8-in. pipe, $1 per lin. ft.; for laying 8-in. × 6-in. pipe, 90 cts. per lin. ft.; for constructing brick manholes with covers, complete, $60 each; lamp-holes, $12; also for the construction of the Shafter Ave. sewer at the following prices: for furnishing and laying 8-in. pipe $1.08 per lin. ft.; for furnishing and laying "Y" branches, 40 cts. each extra. F. C. Turner is City Engr.

OAKLAND, CAL.—The Council has awarded the contract for the construction of the 13th Ave. sewer to LOUIS LIMA at the following prices: for furnishing and laying 8-in. pipe, $1.15 per lin. ft.; for furnishing and laying "Y" branches, $1 each extra; for constructing brick manholes with covers, complete, $68 each.

SAN JOSE, CAL.—We are officially advised that bids are asked until Nov. 4 for the construction of a concrete sewer, 24 ins. × 36 in., length 9,932 ft. and average cut 13½ ft. Roy E. Walter is City Clk. Charles H. Pieper is City Engr.

MANILA, P. I.—Bids are asked until Jan. 15 for pumps and motors for new sewer system. See under U. S. Possessions and Cuba.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

DANBURY, CONN.—O. T. BENEDICT has been awarded the contract for the construction of the state road at this place, at $10,000.

STAMFORD, CONN.—Bids are asked by the Board of Selectmen until 3 p. m., Oct. 24, for grading and macadamizing two sections of road in the town of Stamford.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 29, by Louis F. Haffen, Pres. Boro. of The Bronx, for regulating, grading, building approaches and placing fences in Johnson Ave., between Kappack St. and Spuyten Duyvil Road at West 227th St., and in Spuyten Duyvil Road between Johnson Ave. at West 227th St., and West 230th St.

Bids are asked until 11 a. m., Oct. 30, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving various streets in the borough.

PITTSBURG, PA.—M. O'HERRON, South First and McKean Sts., has been awarded the contract by A. B. Shepperd, Dir. Pub. Wks., for grading, paving and curbing Sixth and Webster Aves., at $18,430 and $17,606.

Bids are asked by F. P. Booth, County Controller, until noon, Oct. 25, for constructing a flagstone sidewalk along the Sixth Ave. frontage of the jail lot.

WILMINGTON, DEL.—All bids opened Oct. 15, for building a macadam road from Eden Park to the limits of New Castle Hundred, a distance of 2.64 miles, were rejected as too high, by the State Highway Commissioners, and will be readvertised.

CONCORD, N. C.—Bids are asked by the Board of Commissioners of Cabarrus County until Oct. 24, for grading and macadamizing about 10 miles of public road from Concord to Kanapolis; also about one mile on the Concord and Charlotte road. John A. Cline is Chn Bd.

GADSEN, ALA.—LESLIE L. LOCKWOOD, Bessemer, Ala., has been awarded the contract by the city for laying 20,000 sq. yds. of cement sidewalk paving and 30,000 lin. ft. of combined curbing and guttering, at $38,829.

ATHENS, ALA.—All bids opened Oct. 12 by the Commissioners of Limestone County for the first five miles of road construction have been rejected. C. D. Glaze is Pres. Road Comn.

VICKSBURG, MISS.—See under Electric Railways.

ZANESVILLE, OHIO.—PETIT & ABELE have been awarded the contract by the Board of Public Service for paving State St., at $1.03 a sq. yd. E. H. Smith is City Engr.

TOLEDO, OHIO.—Bids are asked until noon, Oct. 25, by the Board of Public Service for improving and grading various alleys. Frank I. Consaul is Ch. Engr., Bd. Pub. Wks.

MONCLOVA, OHIO.—Bids are asked until noon, Nov. 2, by Don C. Whitehead, Clk., Monclova Township, for draining, grading and macadamizing half a mile of country road.

MIDDLETOWN, OHIO.—Bids are asked until noon, Oct. 28, by the Board of Public Service, for the improvement of Yankee Road, from Main St. to the Miami & Erie Canal, by paving the roadway with either sheet asphalt, bitulithic, macadam, vitrified brick or broken stone macadam. N. G. Oglesby is Clk. Bd.

SPRINGFIELD, OHIO.—The following bids were opened Oct. 12 by the Board of Public Service for paving Telephone Alley, running from Grane Alley to Spring St. and located between High and Main Sts: W. F. Payne, Wassall brick, $1.60 a yd.; limestone curbing, 55 cts.; rounded curbing, 85 cts.; protection curbing, 20 cts.; resetting sewer inlets, $4; resetting manholes, $4; resetting valve boxes, $3; repairing brick paving, $3.50. M. J. Hannon, Peebles brick, $1.50 a yd.; limestone curbing, 50 cts.; rounded curbing, 90 cts.; protection curbing, 20 cts.; resetting sewer inlets, $2.50; resetting manholes, $5; resetting valve boxes, $2; repairing brick paving, $3.

For grading, graveling, curbing and guttering West Clark St.: M. J. Hannon, excavation, 25 cts. a yd.; gravel, 40 cts.; curbing and guttering, 44 cts.; rounded curbing and guttering, 80 cts.; alley intersections, 15 cts.; street intersections, 20 cts.; protection planks, 20 cts.; protection curbing, 20 cts. Thomas E. Wren & Co., excavation, 20 cts.; gravel 38 cts.; rounded curbing, 40 cts.; alley intersections, 12 cts.; street intersections, 20 cts.; protection planks, 8 cts.; protection curbing, 30 cts. W. F. Payne: Excavation, 19½ cts. a yd.; gravel, 45 cts.; curbing and guttering, 35 cts.; rounded curbing and guttering, 80 cts.; alley intersections, 13 cts.; street intersections, 13 cts.; protection planks, 6 cts.; protection curbing, 20 cts.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Oct. 30, by the Board of County commissioners for repairing the pavement on Wooster pike in Middleburg and Stungaville Townships. Julius C. Dorn is Clk of Board. A. B. Lea is County Engr.

LAKEWOOD, OHIO.—Bids are asked until 11 a. m., Nov. 4, by B. M. Cook, Village Clk., for paving Newman Ave.

JASPER, IND.—Bids are asked until 1 p. m., Nov. 4, by M. A. Sweeney, County Audr. for the extension and improvement of the Holland and Huntingburg Road, No. 2, in Patopa Township, by grading, draining and paving with stone.

ROCKVILLE, IND.—Bids are asked until 1 p. m., Nov. 7, by the Commissioners of Parke County, for the construction of a gravel road in Florida Township, known as the Sparks Road. H. A. Henderson is County Audr.

KOKOMO, IND.—Bids are asked by the Commissioners of Howard County, until 2 p. m., Nov. 3, for the construction of the following roads: The Yager Road, in Howard Township; the Jones Road, in Clay Township; the Templeton Road, on line between Howard and Center Townships; the Carter Road, in Howard Township; the Finch Road, in Clay Township; the Frick Road, on the line between Howard and Center Townships; the Shockley Road, in Howard Township; the Rayl Road, in Clay Township; the Klingman Road, in Howard Township; the Geeting Road, in Clay Township; the Hartman Road, in Clay and Ervin Townships, and the Troyer Road, in Howard Township. The twelve roads will aggregate nearly forty miles of gravel road. William B. Benson is County Audr.

SALEM, IND.—Bids are asked by the Commissioners of Washington County, until 1.30 p. m., Nov. 4, for the construction of the following gravel roads: Old Grade Road, in Pierce Township, length 18,639 ft.; Livonia and Mt. Pleasant Road, in Pierce Township, length, 24,845 ft.; Millsport Gravel Road, in Monroe Township, length, 24,220 ft.; Road No. 1, Salem and Martinsville road, length, 10,046 ft.; Road No. 2, Borden and Martinsburg road, length, 9,738 ft.; Road No. 3, Martinsburg and Greenville road, length, 10,363 ft.; Road No. 4, Martinsburg and Palmyra road, length, 9,000 ft. E. G. Ellis is County Audr.

COLUMBUS, IND.—The Commissioners of Bartholomew County will receive bids until 10 a. m., Nov. 4, for the construction of 4,761 ft. of gravel roads in Columbus Township.

CRAWFORDSVILLE, IND.—Bids are asked by the City Council until Oct. 30, for grading and paving the third alley east of Marshall St., and the second alley west of Grant Ave., and for the improvement of Plumb St. by the construction of cement sidewalks. Henry B. Hulett is City Clk.

BLUFFTON, IND.—The County Commissioners on Oct. 9, awarded the following contracts for construction of the Mills gravel road, in Lancaster Township: AMOS G. KING, at $8,197; for the construction of the Hutsell gravel road, in Jefferson Township, J. N. NEFF, Bluffton, Ind., at $7,196.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County until 1 p. m., Nov. 7, for the construction of a macadamized stone road in Parke County, and for grading, draining, straightening, bridging and macadamizing the same. H. A. Henderson is County Audr.

FORT WAYNE, IND.—We are officially advised that WILLIAM BUSCHING, Fort Wayne, has been awarded the contract by the County Commissioners, for construction of $6,020 ft. of macadam road in Monroe Township, at $4,349. George W. Lindemuth is County Audr.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., Nov. 4, by the Board of Commissioners of Adams County, for the construction of a macadamized road in Root Township, known as the Elzey Macadam Road. C. D. Lewton is County Audr.

DES MOINES, IOWA.—Bids are asked until Oct. 30 by the Board of Public Works, for paving portions of West 28th St., West 3d and West 4th Sts. with vitrified paving blocks.

Bids are asked until Oct. 31 by the Board of Public Works, for paving West Walnut St., about 3,288 sq. yds., with asphalt. W. W. Wise is Chn. Bd.

MINNEAPOLIS, MINN.—The Park Board may co-operate with the Park Commission of St. Paul for the establishment of a parkway or boulevard along the east bank of the river, from Franklin to Marshall Aves. Andrew Rinker is City Engr.

WEST ST. PAUL, MINN.—Bids are asked until 2 p. m., Oct. 26, by the Common Council, at the office of Louis H. Peter, 59 East 5th St., St. Paul, Minn., for grading, including the necessary slopes and cuts, of Brunpton St., from Oakland Ave. to South Robert St.

ST. LOUIS, MO.—We are officially advised that the following contracts were awarded Oct. 11 by the Board of Public Improvements: For improving Virginia St. between Arsenal and Pestalozzi Sts., G. EYERMAN & BRO., 1216 South Grand Ave., at $5,441; for improving Carter St. between Warne and Newstead Sts., J. E. PERKINSON, at $37,806; for improving Angelica St. between Eleventh and Blaine Sts., JAMES T. McMAHON, at $6,215; for improving Euclid Ave. between Greer and Ashland Sts., FRUIN & COLNON, Columbia Bottom Road, at $3,627; for reconstructing Bremen St. from Blair to 25th Sts., J. E. PERKINSON, at $21,606; for reconstructing Michigan St. from Davis to Dover Sts., FRUIN & COLNON, at $87,330; for reconstructing Ivory St. from Alabama to its intersection with Steins and Michigan Sts., FRUIN & COLNON, at $23,463; for reconstructing Hamilton St. from Easton to Cote Brilliante Sts., SKRAINKA CONSTRUCTION CO., Security Bldg., at $5,774; for improving Broadway between Switzerland St. and a line about 285 ft. south of Pelham St., G. EYERMAN & BRO., at $18,890; for improving Broadway between a line about 285 ft. south of Pelham and Hornsby Sts., SCHNEIDER GRANITE CO., Fullerton Bldg., at $39,372; for improving Broadway between Adelaide and Canie Sts., SCHNEIDER GRANITE CO., at $43,191; for improving alleys in City Block No. 2,719, between Neosho, Dakota, Nebraska and Pennsylvania Sts., RUECHING CONSTRUCTION CO., Marine Ave. and Gasconade St., at $3,541; for improving alleys in City Blocks Nos. 3214 and 3215, between Husk, Davis, Virginia and Alabama Sts., G. EYERMAN & BRO., at $3,322; for improving alley in City Block No. 4,926, from Thurman to Klemm Sts., and between Botanical and Shenandoah Sts., G. EYERMAN & BRO., at $3,028; for improving alleys between Minerva, Ridge, Academy and Union Sts., G. A. HEMAN, 4736a Labadie Ave., at $5,837; for improving alleys from Sarah to Boyle Sts. between Sarpy and Clayton Sts., G. A. HEMAN, at $4,069; for improving alleys from Cote Brilliante to North Market Sts. and between Arlington and Semple Sts., HANICK QUARRY & CONSTRUCTION CO., Euclid Ave. and Lorraine St., at $3,070; for improving alleys between Wyoming, Juniata, California and Oregon Sts., JOHN B. TURNER, at $3,823; for improving alleys between Wyoming, Connecticut, Grand and Spring Sts., G. EYERMAN & BRO., at $3,922; for constructing such parts of the sidewalk, including all necessary intersections on the east and west sides of Louisiana St. between Delor and Neosho Sts., GILSONITE CONSTRUCTION CO., Wainright Bldg., at $3,259. Charles E. Talbot is Engr., Bd. Pub. Improvements.

KANSAS CITY, MO.—Bids are asked until Oct. 24, by E. A. Harper, City Engr., for paving portions of Grand, Anderson and Walnut Aves., with asphalt, constructing brick or block pavement on various alleys and for laying artificial stone sidewalks on a number of streets.

SEATTLE, WASH.—Bids were received as follows, on Oct. 12, by the Board of Public Works, for various paving work: For grading 31st Ave., P. J. McHugh, 2228 7th Ave., Seattle, $27,873; L. B. Loomis & Co., Western Ave. and Bell St., Seattle, $26,484. City Engineer's preliminary estimate was $22,500.

For grading East Howell St.—P. J. McHugh, $73,195. His bid in detail was as follows: Fixed estimate $3,000; 28½ acres of clearing and grubbing $175; 207 M. ft. B. M. curbs and gutters, $26; 108,000 cu. yds. earthwork, 45 cts.; 1,000 M. ft. B. M. cross walks, $26; 23 catch basins, 2 inlets, each, $85; 56 catch basins, 1 inlet, each, $75; 12 single inlets, $75; 8 M. ft. B. M. alley gutters, cts., $26; 11 wood manholes to adjust each, $12; 39 brick manholes to adjust, each, $25; 4 sand boxes, each, $25.

For grading and paving 40th Ave.—Rich & Harris, Seattle, $120,474. (Itemized bid is given under Contract Prices.)

SEATTLE, WASH.—Bids are asked until Nov. 2, by the Board of Public Works, for grading, curbing and constructing concrete sidewalks on various streets.

MONTESANO, WASH.—A. H. MOULTON has been awarded the contract by the County Commissioners for the construction of the South Side Road, from Cosmopolis to this city, at $12,000.

SAN FRANCISCO, Cal.—The following contracts were awarded Oct. 10, by the Board of Public Works: For repaving Fourth St., between Howard and Freelon Sts., C. S. HARNEY, 447 Devisadero St., at $58,855; for repaving Howard St., between 17th and 18th Sts., THE CITY STREET IMPROVEMENT CO., 17th and Harrison Sts., at $5,586; for repaving Harrison St., between Fourth and Sixth Sts., J. A. Dowling, at $34,796. Thomas P. Woodward is City Engr.

*SALT LAKE CITY, UTAH.—Bids are asked until 8 p. m., Dec. 6, by the Board of Public Works, for the work of grading, curbing and paving First South St., from Second East St. to 13th East St. The approximate quantities of work to be done are as follows: grading, 60,000 cu. yds.; curbing, 17,000 lin. ft.; asphalt pavement, 41,000 sq. yds. F. G. Leonard, Chn. Bd.

CALDWELL, IDAHO.—The contract for the construction of 20,000 ft. of sidewalk has been awarded by the Board of Public Works to WARD & BILLINGER, at 75 cts. per ft.; also for putting in about the same amount of curbing, at 45 cts. per ft.

BURNABY, B. C.—The following contracts were awarded Oct. 4, by the Council: For extending the Price Road, W. H. LEDGER, at $10.85 per chain; for extending the Welsh Road, J. H. LEDGER and F. DOW, at $14 per chain.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

HAVERHILL, MASS. — The Haverhill Building Association has accepted plans and specifications, it is stated, for Factory No. 2, to be erected on Walnut St. Estimated cost, $115,000. C. Willis Damon, Haverhill, Mass., is Arch.

WORCESTER, MASS.—Bids are asked until noon, Oct. 25, by George C. Halcott, Supt. Pub. Bldgs., for erection of a 4-story brick work shop to be occupied by the Water Department and located on East Worcester St., near Shrewsbury St.

RIVER POINT, R. I.—At a meeting of the stockholders and incorporators of the Warwick Lace Works, a new firm, the corporation was organized with Henry C. Dexter as Pres. and Henry T. White Secy.-Treas. A building committee was authorized to proceed with the plans for a factory to be built here and the contract for which will be let at once. The plant will have a capacity of eleven looms and six will be installed at the beginning. The factory will be of brick, two stories in height. The new company is capitalized at $300,000.

TOTTENVILLE (S. I.), N. Y.—It is reported that a plot of 70 acres of land at Tottenville has been bought by the Southern Shipbuilding Co., of Jacksonville, Fla., to be used for a shipbuilding plant. The plot has a water front of 700 ft. on Staten Island Sound. It is said to be the intention of the company to remove this plant, with considerable additions, from Jacksonville to the Staten Island site. Work on the new plant is expected to begin at once.

NEWARK, N. J.—The Rossendale-Redway Belting & Hose Co., Euclid Ave., Newark, will rebuild the part of its plant which was recently destroyed by fire as soon as the insurance is adjusted. The company hopes to have the department that was damaged in operation again in about six or eight weeks.

It is reported that the J. H. Ladew Co., of Glen Cove, L. I., N. Y., and Chattanooga, Tenn., has secured 20 acres of the Newark meadow land on the Passaic River, and proposes constructing a plant having a capacity of 3,000 finished hides a day. It is stated that plans are being prepared for the buildings, which are to be of brick and concrete breproof construction, and the largest, a tannery, will be 900 ft. long and contain 500 vats.

McKEES ROCKS, PA.—We are officially advised that the Schoen Steel Wheel Co. is having plans prepared for constructing open-hearth steel plant and for a finishing and blooming mill. Estimated cost, $1,600,000. The following contracts have been let: Buildings, RITER CONLEY MFG. CO., 55 Water St., Pittsburg; cranes, SHAW ELECTRIC CRANE CO., Park Bldg., Pittsburg; gas producers, FORTER-MILLER ENGINE CO., Westinghouse Bldg., Pittsburg. M. R. Jackson is Gen. Mgr.

LANGHORNE, PA.—We are officially advised that Ballinger & Perrot, 1200 Chestnut St., Archs. and Engrs., have awarded contract to CYRUS E. SMITH, Hulmeville, Pa., for an engine and boiler house for C. J. Matthews & Co., morocco manufacturers, to be located at Langhorne, Pa., adjacent to the manufactory building which is now being erected for them. The building will be 45 × 50 ft., one story with brick walls, wood roof truss with slag roof covering and cement floors. Two 66 in. × 16 ft. boilers will be installed, providing steam for a Corliss engine. A steel stack will provide draft for the boilers. Work will be commenced at once and completed by Nov. 20.

YORK, PA.—It is reported that the York Mfg. Co. intends erecting a 2-story brick addition, 150 × 230 ft., to its plant in the West End, to be used as a foundry.

PITTSBURG, PA.—The Westinghouse Machine Co., Westinghouse Bldg., has announced that it will concentrate all the plants of the Westinghouse Machine Co. at Trafford City. A new plant will be erected at once, and the total cost of the improvement will reach $6,000,000. Among the plants to be moved is the Walker Machine Co., at Cleveland. H. L. Barton is Gen. Supt.

WASHINGTON, D. C.—Bids are asked until 11 a. m., Nov. 16, by the Bureau of Yards and Docks, Navy Dept., Washington, for laundry equipment at the U. S. Naval Hospital Medical School, Washington. R. C. Hollyday is Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

BALTIMORE, MD.—The DAVID M. ANDREWS CO. has received the contract for erection of the cooling building for the J. S. Young Mfg. Co., at Boston and Elliott Sts. Plans for the structure were prepared by Charles M. Anderson, Arch., and call for a structure three stories high, to be of mill construction and to cost approximately $26,000.

ARVONIA, VA.—The Victoria Buckingham Slate Mfg. Co. will establish a plant for manufacturing slate billiard and laboratory table tops, blackboards, school slates, acid vats, electric switchboards and electrical insulating apparatus of various kinds, etc. The company has secured about 75 acres of slate lands, which will be developed, and about 75 acres additional will be acquired on which to erect cottages for workmen.

SHELBY, N. C.—Plans have been completed for the cloth mill of the Ella Mfg. Co., of Shelby, and construction of the building will be started right away. It will be a 1-story structure, 77 × 356 ft. The equipment will consist of 5,000 spindles and 126 looms, to produce cotton cloth. Organization has also been completed with S. H. Hamrick, Pres.; J. P. Dellinger, Vice-Pres., and J. R. Dover, Secy.-Treas. Capital stock is $100,000.

HATTIESBURG, MISS.—The Southern Ice Co., recently incorporated, has not yet elected officers or employed engineer. Frame building, 54 × 20 ft., will be erected. Machinery will be installed at cost of $24,000. Capacity of plant, 50 tons. Frank McClure is interested.

NASHVILLE, TENN.—The Tennessee Brass Foundry will establish plant to manufacture brass, bronze and aluminum castings, it is reported. Frank McKinstry will be Supt., 1612 Thompson St., Nashville.

WINCHESTER, KY.—A plant will be established by Eagle Casting Co., which will engage in the production of gray iron, semi-steel and brass castings. Capacity, 10 tons daily. A frame building will be erected, 126 × 130 ft. Cost of building, $3,000; cost of machinery, $4,000. F. G. Cornell is Gen. Mgr.

ALLIANCE, OHIO.—The Buckeye Handle, Gear & Bending Co., of this city, which has just been formed by S. A. Wells, J. Guthrie, Henry Eisenbraun, Walter Bidwell and W. I. Williams, of Alliance, will start the construction of a plant for cutting all kinds of gears about Nov. 1. The initial cost will be approximately $15,000. It will be enlarged later.

CINCINNATI, OHIO.—The Cincinnati Iron & Steel Co., Edward H. Bush, Pres., will erect a rolling mill having a capacity of 3,000 tons per month, to cost $500,000.

FONTANET, IND.—It is stated that the Dupont Powder Co. will rebuild the plant recently destroyed by explosion and fire on another site more remote from any city.

INDIANAPOLIS, IND.—We are officially advised that the Dynes Lumber Co. will erect eight buildings at once, one and two stories high. One will be fireproof. The company will need at once planing mill machinery, exhaust fan system, electric motors, 5 to 25 HP., and 15-HP. steam boiler. Bedell & Lieske, Law Bldg., Indianapolis, are Archs.

CHICAGO, ILL.—Treat & Ahlschuler, Archs., 277 Dearborn St., will soon complete plans for a manufacturing plant, to be built at Lexington St. and Washtenaw Ave. for the Raymond Lead Co., N. T. Morgan, Secy. and Treas., 59 W. Lake St. It will comprise three buildings: (a) one story, 125 × 75 ft.; (b) one story, 16 × 133 ft.; (c) two stories, 112 × 200 ft. Brick, mill and steel construction will be used. Cost, $200,000. Bids will be received by architects.

The McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has been awarded the general contract for the construction of two shops for the Chicago, New York & Boston Refrigerator Co. The shops will be of steel, 80 × 500 ft., and a machine shop is included, 32 × 162 ft. These will be built on St. Louis Ave., Chicago, and will be used for manufacturing pipe up to ten inches in diameter.

CHICAGO, ILL.—A large plant at the corner of Erie and St. Clair Sts. probably will be built by Halsey Bros. Co., 141 Kinzie St., manufacturing chemists. It has a frontage of 97 ft. on St. Clair St. and 120 ft. on Erie St. It is the intention to erect a building which will be devoted to pharmaceutical manufacturing.

NEW HOLSTEIN, WIS.—The Lauson Mfg. Co., G. M. Matson, sales manager, is having plans prepared by John Menge, Jr., Mathews Bldg., Milwaukee, Wis., for a $20,000 foundry and machine shop, 100 × 300 ft. G. M. Matson is Sales Mgr.

OMAHA, NEB.—The management of the Paxton & Vierling Iron Works, Omaha, contemplates extensive improvements to its plant, which are designed to double its capacity. This work will not be begun until some time next year.

ST. LOUIS, MO.—The J. Hahn Bakery Co. is having plans prepared by Otto J. Krieg, 3529 South Jefferson Ave., for erection of bakery and stable, 55 × 140 and 30 × 42 ft. respectively; paving, vitrified brick and stone. Cost, $25,000.

The Domestic Gas Co. will establish plant for manufacturing gas-producing machinery, expending about $50,000. H. L. Horton is Pres.; A. L. Vaughn, Vice-Pres.; W. M. Kavanaugh, Treas.; H. N. Samstag, Secy., and M. Laux, Gen. Mgr. The main offices are at the Southern Trust Bldg., Little Rock, Ark.

KANSAS CITY, MO.—The Midland Bridge Co., Gibraltar Bldg., Kansas City, has purchased property in Rosedale, where it intends later to build a bridge shop of moderate capacity. The company intends to build a storehouse for its foundation and erecting plant as soon as a switch can be built on the property, but the time for beginning the construction of the bridge shop will depend upon the condition of business about the first of the year.

RICHMOND, TEX.—A sugar mill will be built on Oyster Creek by Dew Bros. at a cost of about $75,000.

OKEENE, OKLA.—J. C. Fisher will establish cement-manufacturing plant with capacity of 300 tons daily, it is reported. Building 320 × 80 ft., will be erected at cost of about $20,000; cost of machinery, $15,000. M. A. Ashby is Arch.

SEATTLE, WASH.—Plans have been filed by the Stokes Ice Cream Co., 1315 Eighth St., for a 1-story frame and concrete factory building costing $18,000, to be built at 405 Howard St.

PORTLAND, ORE.—The Portland Railway, Light & Power Co. will build shops on the East Side, costing about $500,000, and employing about 1,000 or 1,200 men, it is stated. A new ferry boat is to be built immediately for the Vancouver run, and new steel bridges will be built over the Clackamas River and at Milwaukee. The company will build a new power plant two miles above the present Cazadero plant. J. E. Reinke, Portland, is Master Mechanic.

LOS ANGELES, CAL.—Contract has been awarded by Board of Public Works for supplying machinery for city's cement plant, that is to furnish cement for the Los Angeles aqueduct to THOMAS PROSSER & SON for eight tube mills. The Board also secured permission to order the ninth tube mill from the same firm. William Mulholland is Ch. Engr., Aqueduct Comn., 440 South Hill St.

LONGBEACH, CAL.—Plans of the buildings which will comprise the plant of the Craig Shipbuilding Co. to be erected at Longbeach have been received by Joseph E. Pugh, the local representative, and bids for erection and also for the bulkheading, it is stated, will be called for at once. The various buildings to be erected are punch shop, 46 × 147 ft.; foundry, first section 90 × 100 ft.; machine shop, 90 × 128 ft.; power-house, 50 × 150 ft.; boiler house, 25 × 50 ft.; mold loft, 40×150 ft.; forge shop, 45 × 35 ft.; joiner shop, 40 × 50 ft.; bending floor, 35 × 35 ft., and office, 30 × 50 ft. All of these, except the last, will be of heavy mill construction, limited to one story, by reason of the weight of the machinery. The cribbing and bulkheading in front of the plant will be 600 ft. long, the cribbing to extend back 20 ft.

SACRAMENTO, CAL.—The Folsom Rock Co. is to erect a rock crushing plant on property leased from the Folsom Development Co., near Dredge. The property comprises about ten acres. Tracks will be laid to the proposed new crusher.

VANCOUVER, B. C.—Coleman, Spencer & Co., connected with the Milwaukee Lumber Co., First Ave. and East St., Milwaukee, Wis., have decided to proceed at once with erection of a saw mill, logging railroads, etc., at a cost of $500,000. The mill will be located on Emily Lagoon, Mackenzie Sound, and will have a daily output of 120,000 ft.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

BULKHEAD CRIBBING.—Longbeach, Cal. —See under Manufacturing Plants.

*TORPEDO CASES.—Fort Totten, N. Y.—Bids are asked by the Disbursing Officer until noon, Nov. 11, for steel and submarine torpedo cases.

*WHARF.—Fort Moultrie, S. C.—Bids are asked until 11.30 a. m., Nov. 21, by J. M. Fulton, Q. M., for construction of a wharf at Fort Sumter, S. C.

*JETTY WORK.—Galveston, Tex.—Bids are asked until noon, Nov. 21, by Capt. John C. Oakes, Corps Engrs., U. S. A., for jetty work at Aransas Pass, Tex.

*DREDGING.—Grand Rapids, Mich.—Bids are asked until 3 p. m., Nov. 20, by Col. M. B. Adams, Corps Engrs., U. S. A., for dredging at Muskegon Harbor, Mich.

*DREDGING.—Mobile, Ala.—Bids are asked until 11 a. m., Nov. 21, by Maj. H. Jervey, Corps Engrs., U. S. A., for dredging at the mouths of Wolf and Jordan Rivers, Miss.

*BREAKWATERS.—Grand Rapids, Mich.—Bids are asked until 3 p. m., Nov. 20, by Col. M. B. Adams, Corps Engrs., U. S. A., for construction of breakwaters at Ludington, Mich.

FLOOD PROTECTION.—Grand Rapids, Mich.—Bids are asked by the Board of Public Works until 8 p. m., Oct. 24, for constructing dock line and excavating for flood protection from Grand River.

TELEPHONE SYSTEM.—Nelson, B. C.—A committee of the Board of Trade has been appointed to consider the question of building a municipal telephone system. C. W. Busk, Nelson, B. C., is interested.

DRAIN.—Sac City, Iowa.—Bids were received on Oct. 11 by J. J. Harter, County Audr., for constructing 9,000 ft. tile drain in Cedar Township. Contract has been awarded to ANTON ORN, of Sac City, at $6,400.

*LOCOMOTIVES, ENGINES. — Portland, Ore.—Bids are asked by Lieut-Col. S. W. Roessler, Corps Engrs., U. S. A., until 11 a. m., Nov. 18, for furnishing and delivering four hoisting engines, three locomotives and two boilers.

INCLINE.—Boston, Mass.—Bids are asked until noon, Oct. 31, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing open incline north of the Boston City Hospital Relief Station, near Canal St., for the Washington St. tunnel.

REPAIRING FIRE BOAT.—New York, N. Y.—Bids are asked by Francis J. [illegible], Comr., until 10.30 a. m., Oct. [illegible], for furnishing all the labor and materials required for repairs and alterations to the boat "Abram S. Hewitt" (Engine 77).

LEVEE.—Washington Court-House, Ohio.—Bids are asked by H. D. Chance, County Audr., until 2 p. m., Oct. 26, for constructing a levee at Paint Creek bridge; also for constructing the approaches to the bridge over Rattlesnake Creek on the Per[illegible] road.

DREDGING.—National Soldiers' Home, Va. —Bids are asked by John T. Hume, Treas. Southern Branch, N. H. D. V. S. National Soldiers' Home, Elizabeth City County, Va., until 1.30 p. m., Nov. 1, for dredging channel extension, Jones' Creek, about 4,500 cu. yds.

STEEL FENCE.—Cheyenne, Wyo.—Bids are asked until 11.30 (mountain time) Nov. 4, by Capt. V. K. Hart, 15th Inf., A. A. Q. M., Cheyenne, for furnishing material and constructing a steel fence for enclosing quartermaster's corrals at Fort D. A. Russell, Wyo.

ICE PIERS.—Laprairie, Que.—Bids are asked until Nov. 4 by the Department of Public Wks., Fred Gelinas, Secy., Ottawa, Ont., for constructing two ice piers in the River St. Jacques, at Laprairie. J. L. Millier, Resident Engr., Merchants' Bank Bldg., Montreal, Que.

GREENHOUSE.—National Soldiers' Home, Va.—Bids are asked by John T. Hume, Treas., Southern Branch, N. H. D. V. S. National Soldiers' Home, Elizabeth City County, Va., until 1.30 p. m., Nov. 7, for furnishing all material and labor for constructing a greenhouse.

DREDGING.—Wilmington, Del.—Bids were received as follows by Maj. C. A. F. Flagler, Corps. Engrs., U. S. A., on Oct. 21 for dredging new entrance to Broadkill River, Del.: River & Harbor Improvement Co., 19.2 cts. a cu. yd.; Pennsylvania Dredging Co., 23⅝ cts. a cu. yd.

BULKHEAD.—Rye, N. Y.—Bids are asked until Nov. 6 by Geo. L. Henderson, Village Clk., for construction of a dock or bulkhead at Milton, Rye, N. Y. Plans and specifications may be seen at the office of the Village Engineer, Charles S. Towle, 5 East 42d St., New York.

WHARF REPAIRS.—Saunderstown, R. I. —One bid was received on Oct. 19 by Capt. Willis C. Metcalf, Q. M., U. S. A., 289 Thames St., Newport, for repairs to quartermaster's wharf and ferry slip at Fort Greble: J. C. Terry, 564 Durfee St., Fall River, Mass., at $3,900.

CANAL.—Centerville Station, Ill.—The Board of Commissioners of Centerville Station Drainage District has awarded the contract for the construction of a canal to R. A. BROWN, of Vincennes, Ind., at 16½ cts. per cu. yd. for the excavation. The total work will cost about $200,000.

SEARCH LIGHT OUTFIT.—Washington, D. C.—The Chief of Engineers, U. S. A., Washington, D. C., has rejected the bids received for furnishing a search-light outfit for the Engineering School, Washington Barracks. But one bid was received, that of the Westinghouse Electric & Mfg. Co., at about $99,000.

CONCRETE WALL.—Economy, Pa.—Plans are being prepared by the Jones & Laughlin Co. for the construction of a concrete wall along the front on the Ohio River at West Economy. On this wall modern machinery for unloading coal and coke will be installed, similar to that now in use at Duquesne.

DREDGING.—Oroville, Cal.—Articles of incorporation of the Butte County Consolidated Dredging Co. have been filed. The capital stock of the company is $2,500,000. The company is formed for the purpose of dredging Butte Creek. The trustees are L. L. Bowen, H. C. Norris, W. L. Krug, D. M. Shanks, E. C. Proctor, H. C. Culver, W. T. Bell.

WHARF.—Houston, Tex.—The Galveston, Harrisburg and Houston Transportation Co., a company recently organized for the purpose of operating a line of barges and tugs in the Houston ship channel, will construct 150 ft. of wharves on the south side of the ship channel between Main and Fannin Sts. The contract for this work has been let to A. N. FITZGERALD, of Houston.

STONE WALL.—Jersey City, N. J.—The following bids were received by the Board of Education on Oct. 10 for (a) building stone wall and approaches on street sides of grounds of high school; (b) erecting retaining wall on east side of grounds: Jos. Cutley, (a) $43,045, (b) $21,150; Jas. Whelan, Hoboken, (a) $48,600; M. T. Connolly Construction Co., (a) $46,600, (b) $2,400.

COAL TRACKS, ETC.—Cincinnati, Ohio.—Bids are asked by the Board of Trustees, Comrs. W.-W., until noon, Oct. 29, for constructing narrow gage coal and ash handling tracks; also for furnishing and delivering the material for these tracks, and for laying the same, at the river and main pumping stations of the city of Cincinnati. Elmer G. Prior, Clk.

ORDNANCE.—Washington, D. C.—Bids were received Oct. 18, by the Chief of Army Ordnance, Washington, for furnishing 6-in. armor-piercing shot, in two designs: Firth-Sterling Steel Co., Giesboro Point, D. C., $87 each, for either design. Bethlehem Steel Co., South Bethlehem, Pa., design A, $28.16; B, $49.66. Midvale Steel Co., Philadelphia, A, $35.55; B $80.

WHARF PLANS.—Santa Monica, Cal.—The city proposes to construct a pier or wharf at foot of Colorado Ave., a distance of 1,600 ft., of reinforced concrete with wood or asphaltum coverings or both. Cost of this structure must not exceed $80,000. City Council desires preliminary detail plans to be submitted up to Oct. 31 at office of J. C. Hemingway, City Clerk. The price for complete detail plans for proposed wharf must accompany the preliminary detail plans.

PILE AND TIMBER PIER.—Charleston, S. C.—Bids are asked until 11 a. m., Nov. 16, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a reinforced concrete and wooden pile and timber deck pier at the U. S. Navy Yard, Charleston, S. C. Holliday, Ch. Bureau. Specifications are on file at office of Engineering News, New York.

CEMENT WALL.—Chatham, Ont.—Bids are asked by H. J. Lamb, Resident Engr., London, Ont., and at the Department of Public Works, Ottawa, until Oct. 28, for the construction of a concrete cement wall at Tecumseh Park, Chatham. Bids will also be received at either of the above addresses for the construction of a pile protection work at McGregor's Creek, until Nov. 4.

*REMOVING WRECK.—Boston, Mass.—Bids are asked until noon, Nov. 18, by Maj. Edward Burr, Corps Engrs., U. S. A., for removal of wreck. Whereas, navigation is obstructed and endangered by wreck of schooner "Phineas H. Gay," in Broad Sound, Boston Harbor, Mass.; notice is hereby given that unless otherwise removed within 30 days it will be removed by the United tSates under authority of law.

DREDGING.—Washington, D. C.—Maj. Spencer Cosby, Engineer Corps, U. S. A., Washington, D. C., has recommended that award be made to T. SANFORD ROSS, Jersey City, N. J., for a large quantity of dredging in the James River, Va., omitting the rock excavation, upon which the bids were too high. The principal items were: 133,400 cu. yds. earth excavation at 37.1 cts.; 54,000 cu. yds. hydraulic excavation at 60 cts., etc.

LEVEE.—New Orleans, La.—The Orleans Levee Board received bids on Oct. 10 for building the Lower Delacroix and the Beka levees in Algiers. BENDER & CETTEN, of New Orleans, were the successful bidders for the first named levee, at 23 cts. a cu. yd. for the earth work and $85 per M. for creosoted lumber. The bid for the lumber was considered excessive, but was offset by the low price for the earth work. M. FREY got the contract for building the Beka levee, his bid being 29.45 cts. a cu. yd.

*DREDGING.—Manchester, Mass. — Bids were received on Oct. 18 by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, for dredging in Manchester Harbor, Manchester. Work to be done is dredging about 14,500 cu. yds. of material to make about 2,000 ft. of the main channel in the harbor 6 ft. deep at mean low tide, and 75 ft. wide at the bottom. Contract was awarded to the EASTERN DREDGING CO., 247 Atlantic Ave., Boston, at 34 cts. a cu. yd., scow meas. Frank W. Hodgdon is Ch. Engr.

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Bids were received as follows on Oct. 5 by Maj. H. Jervey, Corps Engrs., U. S. A., for building locks and dams Nos. 2 and 3 and lock-tender's house, Tombigbee River, Ala.: (A) Lock No. 2; (B) Lock No. 3; (C) lock-tender's house at Lock No. 3: P. H. O'Brien, Anniston, Ala., (A) $350,275; (B) $389,725; (C) $2,500. Lane Bros. Co., Lynchburg, Va., (A) $400,655; (B) $441,955; (C) $3,000. Engineer's estimate, (A) $368,155; (B) $440,967. Itemized bids are given this week under Contract Prices.

RAILROAD MATERIAL.—Augusta, Ga.—Bids are asked by the Commanding Officer, Augusta Arsenal, Augusta, until Nov. 1, for furnishing the following supplies: Lot No. 1, 30 tons steel T rails, 220 ft. guard rail and twelve kegs standard steel railroad spikes; lot No. 2, one tongue switch; lot No. 3, two stiff frogs, two guard rails and two sets split switches; lot No. 4, 1,200 railroad ties and two special railroad ties; lot No. 5, 1,200 railroad ties and two special railroad ties; lot No. 6, 15 trolley poles 25 ft. long and 3 trolley poles 30 ft. long; lot No. 7, 110 bonds; lot No. 8, 700 lbs. trolley wire; lot No. 9, 500 ft. guy wire, ¼-in., and 200 ft. guy wire, ⅜-in.

BARGE CANAL.—Albany, N. Y.—No bids were received by F. C. Stevens, Supt. of Public Works, for barge canal contract No. 20, on Oct. 17, which was the date set for the opening of proposals. This contract is for dredging a channel in the Mohawk River and performing work incidental thereto between Rexford Flats and Cranes Village; length, 18.5 miles. The engineer's estimate is $1,112,049. The principal items in the specifications are: 2,750,000 cu. yds. all excavation; 1,500 sq. yds. first-class stone paving; 2,200 cu. yds. fourth-class riprap. Frederick Skene is State Engr.

BOUNDARY WALL.—New York, N. Y.—Bids were received as follows on Oct. 17 by the Park Board for furnishing all the labor and materials necessary to construct a rustic masonry boundary wall around Sunset Park, Boro. of Brooklyn: Richard E. Hengingham, 1 Madison Ave., $45,375; Daniel Douglas, Pitkin Ave., Brooklyn, $44,826; Charles Cranford, Foster Ave., Brooklyn, $45,656; Kiley & Kelly, Inc., 45 East 42d St., $48,642; Bonacci & Varcelli Contracting Co., $39,921; Guidone & Gilardi, 1 Madison Ave., $40,397; M. Marrone, Brooklyn, $40,364; Haggerty Contracting Co., 13 Park Row, $52,567; McHarg Bart & Co., 299 Broadway, $34,325; Thompson & Kelsey, $37,442; Bart Dunn, 414 East 68th St., $42,398; John M. Fox, Brooklyn, $39,571.

TRANSPORTATION OF COAL.—Washington, D. C.—The Chief of the Bureau of Equipment, Navy Dept., Washington, D. C., has made the following awards for transporting American coal from the Atlantic seaboard to various ports in South America for the use of the fleet, all coal to be carried in foreign vessels: Trinidad: WEST INDIES STEAMSHIP CO., New York, 7,000 tons at $1.74 per ton. Rio de Janeiro: LIND & CO., New York, 20,000 tons at $3.10. Callao: AMERICAN TRANSPORTATION CO., Baltimore, 20,000 tons at $6.09. Magdalena Bay: TWEEDIE TRADING CO., New York, 25,000 tons at $6.50. Second delivery: UNITED STATES SHIPPING CO., New York, 10,000 tons at $6.63½. San Francisco, LIND & CO., New York, 20,000 tons at $6.15; second delivery: same quantity and price.

U. S. POSSESSIONS AND CUBA.

*SEWER SYSTEM.—Philippines.—Bids are asked by the Municipal Board, Manila, until noon, Jan. 19, for furnishing and installing electrically driven pumps and motors for the new sewer system in the city of Manila. There will be one main station, and five substations, each equipped with two pumps and corresponding motors, or a total of twelve pumps and motors. Each proposal must be accompanied by drawings, showing the general dimensions of the pumps and motors and of the foundations required for the same, and also a detailed description of the proposed installation. J. F. Case, Ch. Engr. Blue prints and specifications for this work are on file at the office of Engineering News, New York.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Nov. 12, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a quantity of engineering supplies, as follows: Five track-laying cars, 10-ton capacity; ten journal jacks; one 5-HP. motor; 30,000 ft. porous drain tile; iron; steel; steel-plates; rivets; hoisting chains; 4,000 ft. plow-steel wire cable; 5,700 ft. unlined linen hose; hose reels; hoze nozzles; wood split pulleys; tongs, pliers, pinch bars, wrenches; screws; clamps, vises, and other miscellaneous hardware; 20,000 gals. mineral oil; 2,000 gals. air-cylinder oil and other oils and greases; cotton waste; 50 pieces maple timber; 2,700 lin. ft. basswood lumber.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Bids were received Oct. 5, by Maj. H. Jervey, Corps. Engrs., U. S. A., for building locks and dams Nos. 2 and 3, and lock-tender's house, Tombigbee River, Ala. The itemized bids were as follows: (A) P. H. O'Brien, Anniston, Ala.; (B) Lane Bros. Co., Lynchburg, Va.; (C) Engineer's estimate.

	(A)	(B)	(C)
Lock No. 2—			
11 acres grubbing and clearing, per acre	$200.00	$100.00	$100.00
100,400 cu. yds. common excavation	.40	.55	.45
8,400 cu. yds. foundation excavation	1.40	2.75	4.00
12,600 cu. yds. stone filling	5.00	4.50	4.00
17,200 cu. yds. concrete	8.45	10.00	8.00
1,000 cu. yds. gravel filling	2.00	4.50	2.25
5,400 cu. yds. riprap, hand placed	5.50	5.00	4.50
3,600 ft. B. M. miter sills	100.00	100.00	100.00
352,000 ft. B. M. framed timber, square edged, sound	45.00	45.00	45.00
473,000 ft. B. M. framed timber, heart	47.00	55.00	50.00
309,000 ft. B. M. cofferdam timber	37.50	50.00	45.00
40,000 ft. B. M. sheathing	35.00	40.00	35.00
400 lin. ft. drain pipe	1.50	.90	.40
94,000 lbs. placing valves and special irons	.04	.01½	.01½
Totals	$350,275	$400,655	$368,155
Lock No. 3—			
8 acres grubbing and clearing, per acre	$200.00	$100.00	$100.00
109,000 cu. yds. common excavation	.40	.55	.45
16,000 cu. yds. foundation excavation	1.25	2.75	4.00
19,200 cu. yds. stone filling	4.50	4.25	4.00
18,700 cu. yds. concrete	8.45	9.00	8.00
1,000 cu. yds. gravel filling	2.00	4.00	2.25
2,900 cu. yds. riprap, hand placed	5.00	5.00	4.50
3,600 ft. B. M. miter sills	100.00	100.00	100.00
507,000 ft. B. M. framed timber, square edged, sound	45.00	45.00	45.00
477,000 ft. B. M. framed timber, heart	37.50	50.00	45.00
320,500 ft. B. M. cofferdam timber	37.50	50.00	45.00
40,000 ft. B. M. sheathing	35.00	40.00	35.00
400 lin. ft. drain pipe	1.50	.90	.40
94,000 lbs. placing valves and special irons	.04	.01½	.01½
Totals	$389,725	$441,955	$440,967
Lock Tender's house, at Lock No. 3	$2,500	$3,000	

PAVING.—Seattle, Wash.—One bid was received by the Board of Public Works on Oct. 12 for grading and paving 40th Ave., submitted by Rich & Harris, Seattle. In detail the bid was as follows:

Fixed estimate		$2,500.00
Clearing and grubbing, lump sum		5,000.00
2,700 lin. ft. 8-in. pipe sewer	.95	
460 lin. ft. 10-in. pipe sewer	1.25	
120 lin. ft. 8-in. wood pipe sewer	2.00	
22 lin. ft. 4½-ft. manholes, each	80.00	
5 4½-ft. manholes, to be remodeled, each	80.00	
24 catch basins, 1-inlet, each	75.00	
8 catch basins, 2-inlet, each	85.00	
1,900 lin. ft. curbing armored concrete	1.10	
14,870 lin. ft. curbing standard concrete	.50	
2,420 lin ft. curbing special concrete	.50	
100 sq. yds. sidewalk repair concrete	1.50	
24,765 sq. yds. asphalt pavement	2.35	
3,225 sq. yds. brick gutters	3.40	
420 lin. ft. wood stop	.50	
10 flush tanks, each	125.00	
2 catch basins to move, each	25.00	
4 catch basins, no inlets, each	65.00	
2 single inlets, each	15.00	
8 inlets to be moved, each	5.00	
6 adjusting C. B. & M. H. covers, each	2.50	
26 monument cases, each	10.00	
680 sq. yds. concrete walks	1.35	
150 lin. ft. tile drain	.20	
98 cu. yds. retaining wall	10.00	
190 lin. ft. iron railing	1.25	
3,210 lin. ft. 8-in. C. S. pipe, Class "A"	2.00	
2,123 lin. ft. 8-in. C. S. pipe, Class "B"	2.10	
14 8-in. gates, each	45.00	
18 hydrants, each	100 00	
80 lin. ft. 6-in. C. S. pipe, Hyd. Conn. "A"	1.50	
80 lin. ft. 6-in. C. S. pipe, Hyd. Conn. "B"	1.60	
14 brick gate chambers, new, each	40.00	
4 brick gate chambers, exist. gates, each	40.00	
7,500 cu. yds. sub-grading	.60	
Total		$120,475

TRUNK SEWER.—Seattle, Wash.—One bid was received on Oct. 12 (readvertisement) by the Board of Public Works for construction of the Green Lake District of the North trunk sewer. (No bids were received on Sept. 7 for this contract.) The bidder was the James Black Masonry & Construction Co., Seattle. Itemized bid was as follows:

Fixed estimate	$15,000.00
795 lin. ft. 36-in. concrete sewer	6.00
3,721 lin. ft. 42-in. concrete sewer	7.50
548 lin. ft. 48-in. concrete sewer	12.00
5,023 lin. ft. 54-in. concrete sewer	16.00
336 lin. ft. 72-in. concrete sewer	20.00
1,104 lin. ft. 84-in. concrete sewer	33.00
2,050 lin. ft. 90-in. concrete sewer	30.00
2,132 lin. ft. 96-in. concrete sewer	34.00
3,482 lin. ft. 90-in. concrete sewer with brick invert	33.00
183 lin. ft. 126-in. concrete sewer with brick invert	64.00
6,948 lin. ft. 138-in. concrete sewer with brick invert	85.00
3,581 lin. ft. 72-in. brick tunnel	27.00
75 manholes, each	10.00
400 manholes, extra depth	10.00
1 junction chamber No. 1	3,500.00
1 junction chamber No. 2	8,930.00
1 junction chamber No. 3	8,989.00
1 stormwater overflow	18,426.00
1 sand catcher	8,600.00
1 siphon	5,835.00
500 side connections	.50
100 cu. yds. concrete in tunnel	10.00
200 cu. yds. extra concrete	14 00
10,000 lin. ft. sub-drain	.50
20,000 lbs. extra steel	.05
Total	$993,036

MONETT, MO.—Bids were received as follows on Sept. 24 for constructing sanitary sewers and septic tanks. Burns & McDonnell, 823 Scarrit Bldg., Kansas City, Mo., are Engrs. As noted on Oct. 3, contract has been awarded to J. J. DUNNIGAN, Shenandoah, Iowa, at $51,998. The other bidders were: E. J. Overly & Co., Joplin, Mo., $61,718; McIlroy & Reese, Fayetteville, Ark., $52,490, and Wm. F. Holl, Clinton, Mo., $52,575. The bid of J. J. Dunnigan was as follows: Public sewer and septic tank, $6,437; Dist. No. 1, $25,213; Dist. No. 2, $20,348; excavation, under 8 ft., 90 cts.; excavation, 8 to 12 ft., $1; excavation 12 to 16 ft, $1.15; 8-in. pipe, 24 cts.; 10-in. pipe, 30 cts.; 12-in. pipe, 42 cts.; 15-in. pipe, 62 cts.; 6-8-in. Y's, 75 cts.; 6-10-in. Y's, $1; 6-12-in. Y's $1.50; manholes, $30; flushtank, $65; lamphole, $16; rock, $3; lumber, $30.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

BUILDINGS.—Italy.—Bids were received by the Committee of the Palermo Hospital on Oct. 16 for new buildings, to cost about 3,381,647 lire (about $676,300).

STREET CLEANING.—Chile.—The Municipality of Valparaiso invites bids for cleansing the public streets and highways, also to collect and destroy the refuse, etc., from private houses for a period of ten years.

ELECTRIC CRANE.—Belgium.—Bids are asked by Monsieur le Bourgmestre de la Ville, at the Hotel de Ville, Antwerp, until Nov. 11, for supply and erection of a 30-ton electric crane for the new docks at Antwerp. A deposit of 7,000 francs is required to qualify bids.

CANAL.—Belgium.—Bids are asked at the office of the "Chef de Service des Ponts et Chaussees," rue Capouillet 54, Saint-Gilles, until Oct. 29, for the enlargement of the Charleroi-Brussels canal, between the existing locks Nos. 23 and 31. The estimated cost is $422,000. A deposit of 120,000 francs ($24,000) is required to qualify any bid.

PUMPING PLANT.—India.—Bids are asked until Oct. 31 at London, Eng'and, on a pumping plant for the Municipality of Rangoon, India. It is to be a pumping plant in duplicate, capable of raising a maximum of 10,000 gals. of water per minute, 220 ft. Particulars may be had for the fee of 10s. ($2.50) by addressing Ogilvy, Gillanders & Co., 67 Sun Court, Cornhill, London, E. C., England.

BRIDGE.—Spain.—Bids are asked by the "Direccion generale de Obras Publicas," Madrid, until Dec. 9, for the construction of a bridge over the River Manzanares in place of the old "Puente Verde," joining the road from Madrid to Coruna to the road which encircles the "Casa de Campo." A deposit of 5,000 pesetas (about $1,000) is required to qualify any bid. Local representation is necessary.

VIADUCT.—Spain.—Bids are asked at office of "Direccion general de Obras Publicas," Madrid, until Oct. 28, for the construction of a viaduct over the Rio Asabon, necessitated by the deviation of the main road from Spain into France. The estimated cost is 346,895 pesetas (about $69,000). A deposit of 17,345 pesetas ($3,000) is required to qualify and bid. Local representation is necessary.

RAILWAYS, WAREHOUSES, ETC.—Argentina.—The National Chamber of Deputies has passed the bill authorizing the government to call for bids for the construction of new warehouses, the enlargement of those in existence, the construction of railways, the extension of the defences of the North Basin and the installation of apparatus for loading and discharging merchandise, etc., at Buenos Ayres, with power to expend on the work a sum not exceeding $8,950,000 gold.

RAILWAY IMPROVEMENTS.—Russia.—The Minister of Railways has submitted to the Council of Ministers a scheme for improvements in the state railways, which it is proposed to carry out during 1908-1912. The total estimated expense is $458,000,000, divided among five annual budgets. The principal items are: Doubling tracks, $46,000,000; bridges and embankments, $30,000,000; stations, $59,500,000; workshops, $52,000,000; rerailing, $30,000,000; rolling stock, $151,000,000.

RAILWAY CONCESSIONS.—Austria-Hungary.—Announcement is made of a decree granting a concession to Graf Mensdorff-Pouilly, of Boskowitz, and Engineer Rudolf Czeczowiczka, of Vienna, for the construction and working of the local normal-gage railway from Skalitz-Boskowitz to Gross-Opatowitz. Also a decree granting a concession to the Akt. Ges. Localbahn Innsbruck—Hall i. T. for the construction and working of a small-gage electric railway from the right bank of the River Inn, near the chain bridge at Innsbruck, to the Hungerburgplateau.

TUNNEL.—New Zealand.—Alternative bids were received on July 1 by the High Commissioner for New Zealand, 13 Victoria St., S. W., for construction of a tunnel about five miles 25 chains in length at Arthur's Pass, through the dividing range between Canterbury and Westland, on the route of the New Zealand Midland Ry. Virgil G. Bogue, Consult. Engr., 15 William St., New York. (Advertised in Engineering News, beginning Sept. 13, 1906.) Contract was awarded to JOHN McLEAN & SON, of Wellington, New Zealand, at £599,794 ($2,900,000). The other bidders were: Jere. Drummey, Arrowtown, N. Z., £628,732; Kirkwood, Kerr & Co., London, England, £688,215. P. S. Hay, of Wellington, N. Z., is Engr.-in-Ch.

BUILDING LAW. — Jamaica.—Frederick Van Dyne, U. S. Consul at Kingston, reports that, profiting by the experience in the earthquake and fire in Kingston last January, the new building law (a copy of which is on file in the Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C.) provides that in future, so far as possible, earthquake-proof and fire-resisting buildings only shall be erected. Some of the requirements are as follows: The framework of buildings may be of steel, iron or wood, every member securely, rigidly and durably connected with every contiguous member, and must be covered externally with hard, durable and fire-resisting material, securely attached to the framing at all points.

No timber-framed building shall contain more than two stories having an aggregate height of 25 ft., or have a cubical content exceeding 100,000 cu. ft., nor shall any timber-framed building be erected or used for any other than residential purposes. All members of a steel or iron framework of any building shall be of the same material, and no cast-iron shall be used in any part thereof.

The walls of the buildings may be constructed of brick, concrete, stone or other hard and incombustible material, and they must be built on a foundation of cement concrete. Walls built of brick, dressed stone or other similar material must be solidly put together with Portland cement mortar, and be reinforced by hoop or band iron not less than 1 in. wide and one-twentieth of an inch thick. Walls of cement concrete shall be composed of Portland cement, clean sand, and clean broken brick or stone, and shall be reinforced by steel or iron bands, bars, or wires. Roofs must be covered externally with hard, durable and incombustible material. Iron and steel framing specially manufactured for the construction of buildings and Portland cement are exempted from duty, until April 1, 1909. Noted in Engineering News, Construction News supplement, on May 2, 1907, page 167.

CIVIL SERVICE EXAMINATIONS.

ASSISTANT TECHNICAL EDITOR.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 13, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Technical Editor, $115 per month, in the Geological Survey, and similar vacancies as they may occur. A graduate in civil engineering with some practical experience in structural engineering, especially as regards concrete and reinforced concrete, will be preferred. Experience in writing on technical and engineering

subjects is required. Applicants whose training and experience do not fulfill the conditions will not be admitted to the examination. Age limit, 20 years or over. Application Form 1312.

CONSTRUCTING ENGINEER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Nov. 13 to secure eligibles from which to make certification to fill a number of vacancies in the position of Constructing Engineer, in the Forest Service, at salaries ranging from $1,500 to $2,000 a year, and similar vacancies as they may occur. These positions are for field service in the western part of the United States, with no permanent station, and require much travel. Applicants will not be required to appear at any place for examination. Application Form 304.

ENGINEERS, DRAFTSMEN, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on Nov. 16 for the following positions: Assistant Civil Engineer, Public Service Commission, First District, $1,500 to $1,800; Assistant Steam Engineer, State and County Institutions, $800 to $900 and maintenance; Blacksmith and Wagon Assembler, State Prison Service, $900; Bridge Designer, $1,500 to $2,100; Bridge Draftsman, $1,200 to $1,500; Civil Engineering Draftsman, $4 to $5 a day; Health Officer, Village of Port Chester, $600; Sociologist and Assistant Statistician, Excise Department, $1,200 to $1,500; Special Clerk, Onondaga County Clerk's Office, $900 to $1,200. The last day for filing applications for these positions is Nov. 9. Full information with application forms for any of these examinations may be obtained, upon postal card request, from Charles S. Fowler, Ch. Examiner of the Commission, at Albany.

ASSISTANT ENGINEER.—New York, N. Y.—The Municipal Civil Service Commission held an examination on July 31, to fill the position of Assistant Engineer, Board of Water Supply, New York. The eligible list, established Oct. 10, contains 134 names. The 25 having the highest rating are as follows:

Howe, Richard W., Myrtle Ave., near Park St., Richmond Hill, L. I.	87.95
Hoffman, Edwin A., 364 North Main St., Wilkes-Barre, Pa.	87.05
Lutz, Ulysses S., 4 West 105th St.	84.20
Jones, Frank L., 60 Mamaroneck Ave., White Plains, N. Y.	83.10
Yates, William H., 449 West 123d St.	83.05
Standinger, Emil H., 474 Eighth St., Brooklyn	82.85
Lush, Cuyler W., 162 West 126th St.	82.70
Clark, Charles J., 7 St. Charles Place, Brooklyn	82.65
McClelland, Claude L., 7 South St., Ossining, N. Y.	82.40
Macurdy, John O., 8 Chester St., Watertown, Mass.	82.20
Blatch, Nora S., 315 West 97th St.	82.10
Jabureck, Charles C., 674 St Ann's Ave., The Bronx	82.00
Parsons, Fred H., 3259 Hull Ave., The Bronx	81.95
Sterling, LeGrand E., 74 Bank St.	81.90
Benton, Lewis S., 540 West 150th St.	81.80
Haas, Philip L., 824 East 165th St.	81.70
Wright, John B., 16 Arnold Ave., Amsterdam, N. Y.	81.60
Hill, Herbert C., 245 Cumberland St., Brooklyn	81.60
Johnson, Edward B., Elizabeth St., West New Brighton, S. I.	81.55
Andrus, Leonard A., 226 East 15th St.	81.45
Lincoln, Egbert P., 2501 17th St., N. W., Washington, D. C.	81.20
Meadowcroft, William, 104 West 94th St.	81.15
Hayes, Ralph D., 1 Highland Ave., Middletown, N. Y.	81.00
DuBois, Clarence M., Wardwell Ave., West New Brighton, S. I.	80.95
Wise, Robert E., South Lancaster, Mass.	80.80

INDUSTRIAL NOTES.

EXHIBITORS AT THE BRIDGE AND BUILDING CONVENTION.

The following is a list of supply firms, etc., represented at the annual convention of the Association of Railway Superintendents of Bridges and Buildings at Milwaukee, Wis., Oct. 15 to 17. The Bridge and Building Supply Men's Association was organized to arrange for future exhibits on the lines of the supply associations already organized in connection with other similar conventions.

ALLITH MFG. CO., Chicago.—Trolley carriers; fittings for fire doors and shutters.

AMERICAN HOIST & DERRICK CO., St. Paul, Minn.—Derricks and ditching machines.

AMERICAN VALVE AND METER CO., Cincinnati, O.—Water columns and tank fixtures.

BARRETT MFG. CO., New York, N. Y.—Roofing and flooring.

F. W. BIRD & SON, East Walpole, Mass.—Roofing.

J. A. & W. BIRD & CO., Boston, Mass.—Roofing, and building and insulating papers.

BUDA FOUNDRY & MFG. CO., Chicago.—Bridge jacks, crossing gates and tool grinders.

CARBOLINEUM WOOD PRESERVING CO., Milwaukee, Wis.

PHILIP CAREY MFG. CO., Cincinnati, O.—Roofing.

CREAM CITY ROOFING & PAINT MFG. CO., Milwaukee, Wis.

DETROIT GRAPHITE CO., Detroit, Mich.—Paint for steel work.

PAUL DICKINSON, Chicago.—Smokestacks for roundhouses.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.—Graphite paint for steel structures.

N. C. DURIE & CO., St. Louis, Mo.—Malleable iron washer and nut lock.

EASTERN GRANITE ROOFING CO., New York, N. Y.

FAIRBANKS, MORSE & CO., Chicago.—Motor cars and water-station appliances.

FRANKLIN MFG. CO., Franklin, Pa.—Asbestos shingles and sheathing.

GIFFORD-WOOD CO., Hudson, N. Y.—Ice handling machinery.

HEATH & MILLIGAN MFG. CO., Chicago.—Paint.

E. F. HOUGHTON & CO., Chicago.—Pump packing.

C. B. HUTCHINS, Chicago.—Malleable iron washers and packing blocks for stringers.

H. W. JOHNS-MANVILLE CO., New York.—Roofing.

CHARLES R. LONG CO., Louisville, Ky.—Bridge paints.

J. C. MACFARLAND & CO., Chicago.—Fireproof windows.

MILWAUKEE LOOMOTIVE MFG. CO., North Milwaukee, Wis.—Gasoline locomotives for construction and industrial work.

NATIONAL ROOFING CO., Tonawanda, N. Y.

NATURAL CARBON PAINT CO., Freeport, Ill.—Paint for steel structures.

OTTO GAS ENGINE WORKS, Chicago.—Water softening plants, and water and coaling stations.

A. E. RENDLE, New York.—Skylights.

SHERWIN-WILLIAMS PAINT CO., Chicago.

STANDARD ASPHALT & RUBBER CO., Chicago.—Waterproofing for concrete, flooring, etc.

STANDARD PAINT CO., New York, N. Y.—Roofing and paint.

STOVER MOTOR CAR MFG. CO., Freeport, Ill.—Gasoline inspection car with buggy body and hood.

STOWELL MFG. & FOUNDRY CO., South Milwaukee, Wis.—Hangers and fastenings for fire doors and roundhouse or freight house doors.

U. S. WIND ENGINE & PUMP CO., Batavia, Ill.—Water columns and tank fittings.

WESTERN PARADIGIN CO., Chicago.—Fireproof windows and skylights.

TRADE PUBLICATIONS.

PAINT.—Detroit Graphite Mfg. Co., Detroit, Mich. Paper; 3½ × 5¼ ins.; pp. 10; illustrated.

This little pamphlet shows steel structures of different kinds that have been painted with this company's graphite paint.

ROOFING.—Philip Carey Mfg. Co., Cincinnati, O. Paper; 4¾ × 6¾ ins.; pp. 28; illustrated.

This burlap, asbestos and asphalt roofing is adaptable to all kinds of work, and has been used for the waterproof finish of several concrete roofs.

PAINT.—Heath & Milligan Mfg. Co., Chicago. Paper; 3½ × 6¼ ins.; pp. 30.

This pamphlet sets forth the merits of "Railway White" as a substitute for white lead in paint, and gives the composition of various paint mixtures for wood and ironwork. Directions for painting are also given.

WASHERS AND PACKING BLOCKS.—C. B. Hutchins, 403 Great Northern Building, Chicago. Paper; 3¼ × 6 ins.; pp. 12; illustrated.

These malleable castings include washers, nut locks, cup and socket washers, packing blocks and spools for trestle and bridge floor construction, etc.

FIREPROOF WINDOWS.—J. C. McFarland & Co., 27th St. and Fifth Ave., Chicago. Paper; 5 × 6¾ ins.; illustrated.

These windows have sheet metal frames and sash, glazed with wire-glass. Automatic closing apparatus can be fitted. The illustrations show a number of warehouses, office buildings, etc., equipped with these windows.

ROOFING.—J. A. & W. Bird & Co., Boston, Mass. Paper; 6¾ × 4¾ ins.; illustrated.

The "Flintkote" roofing is of felt saturated with waterproofing composition. Building paper or sheathing, and a flooring material are also included. Testimonials show the use of these materials on buildings of various classes.

WOOD PRESERVATIVE — Carbolineum Wood Preserving Co., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 12; illustrated.

This carbolineum is of German manufacture, on the Avenarius system, and is applied as a paint. A long series of testimonials from numerous railways show favorable results on bridges, trestles, ties, car framing, etc.; others relate to its use on buildings, telegraph poles, etc.

PAINT FOR METAL WORK.—Natural Carbon Paint Co., Freeport, Ill. Paper; 8½ × 6 ins.; pp. 16; illustrated.

This "Mindura" paint is made from a carboniferous-metallic ore, and is said to be proof against moisture, acid fumes and other corrosive influences. It has been used on train sheds, bridges, roofs, chimneys, coal tipples and railway cars, and for piping, etc., in breweries and vinegar factories. Testimonials from engineers and chemists are given, and there are views of structures painted with this material.

GASOLINE AND ALCOHOL LOCOMOTIVES.—Milwaukee Locomotive Mfg. Co., North Milwaukee, Wis. Paper; 9 × 6 ins.; pp. 12; illustrated.

These "Vanguard" locomotives are intended for switching at industrial plants and for use on tunnel and general construction or contract work. A four-cylinder engine is used, with roller-chain transmission to both axles. There are two speeds, two and eight miles per hour in both directions.

For other Proposal Advertisements see pages 53, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 140.

COMMONWEALTH OF MASSACHUSETTS.—Metropolitan Sewerage Works.—Notice to Contractors.—Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton place, Boston, Mass., until 2.30 p. m., of Friday, November 15, 1907, for constructing in rock and earth trench and tunnel Section 81 and parts of Sections 83 and 85 of the Extension of the High Level Sewer, South Metropolitan System, in Brookline and Brighton, in accordance with the forms of contract and specifications to be furnished by the Board. Some particulars of these contracts are estimated to be as follows:

Contract No. 60.—In Chestnut and Kendall Streets, Brookline; length in trench, 2,140 feet; inside diameter of sewer, 78 inches by 84 inches; 50 cubic yards of Portland brick masonry, 3,400 cubic yards of concrete masonry in trench; 2,000 cubic yards rock excavation in trench; sewer invert 13 feet to 29 feet below the street surfaces. Bond, Fifteen Thousand Dollars ($15,000.00).

Contract No. 61.—In Cypress Street, Brookline; length in rock and earth tunnel, 920 feet; length in trench, 355 feet; inside diameter of sewer, 78 inches by 84 inches; 50 cubic yards of Portland brick masonry; 600 cubic yards of concrete masonry in trench; 1,200 cubic yards of concrete masonry in tunnel; 1,000 cubic yards rock excavation in trench; sewer invert, 24 feet to 34 feet below the street surfaces. Bond, Fifteen Thousand Dollars ($15,000.00).

Contract No. 62.—In Winchester Street, Brookline; length in earth tunnel, 1,664 feet; inside diameter of sewer, 69 inches by 72 inches; 50 cubic yards of Portland brick masonry, 2,500 cubic yards of concrete masonry; 100 cubic yards of rock excavation; sewer invert of the tunnel, 28 feet to 43 feet below the street surfaces. Bond, Fifteen Thousand Dollars ($15,000.00).

Contract No. 63.—In Warren Street, Brighton; length in rock tunnel, 1,252 feet; inside diameter of sewer, 69 inches by 72 inches; 50 cubic yards of Portland brick masonry; 1,500 cubic yards of concrete masonry; sewer invert of the tunnel, 53 feet to 63 feet below the street surfaces. Bond, Fifteen Thousand Dollars ($15,000.00).

Contract No. 64.—In Warren, Cambridge and Washington Streets, Brighton; length in rock tunnel, 2,300 feet; inside diameter of sewer, 69 inches by 72 inches; 50 cubic yards of Portland brick masonry; 2,700 cubic yards of concrete masonry; sewer invert of the tunnel, 54 feet to 64 feet below the street surfaces. Bond, Twenty Thousand Dollars ($20,000.00).

Contract No. 65.—In Washington Street, Brighton; length in rock and earth tunnel, 1,650 feet; inside diameter of sewer, 69 inches by 72 inches; 50 cubic yards of Portland brick masonry; 1,900 cubic yards of concrete masonry; sewer invert of the tunnel, 27 feet to 62 feet below the street surfaces. Bond, Fifteen Thousand Dollars ($15,000.00).

Plans can be seen and specifications and forms of contract can be obtained at the above office. Each bid for each contract must be accompanied by a certified check for Two Thousand Dollars ($2,000.00) payable to the Commonwealth of Massachusetts and the bonds specified will be required from successful bidders. The Board reserves the right to reject any or all bids.

HENRY H. SPRAGUE, HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Chief Engineer of Sewerage Works. WILLIAM N. DAVENPORT, Secretary. 17-1t

Department of Public Works,
Bureau of Water,
Office, Room 790, City Hall.
Philadelphia, October 14, 1907.

Sealed proposals, endorsed "Bids for (name specification bid upon)," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on November 4, 1907, for

Specification No. 89. Corrugated Iron Roof Covering for Ventilators of Boiler House, Spring Garden Pumping Station.

Specification No. 90. For one 6,000,000 Gallon Pumping Engine for Belmont High Service Pumping Station.

Specification No. 93. For Furnishing Pipe Fittings and Materials for High Pressure Fire Main System.

Specification No. 94. For Excavating Water Pipe Trenches for High Pressure Fire Main System.

Specification No. 95. For Excavating Water Pipe Trenches and Laying Cast-Iron Water Pipe and all Appurtenances for High Pressure Fire Main System.

Specifications, forms of proposal upon which bids must be made and all information can be obtained at the Office of the Chief of the Bureau of Water, 790 City Hall.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds where the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, Vol. [illegible]), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the City.

GEO. R. STARNS,
17-2t Director.

SECOND-HAND BRIDGE CROSSING PINAWA CHANNEL.

Winnipeg, Manitoba.

Sealed tenders addressed to the Chairman of the Board of Control will be received at the office of the undersigned up to noon of Friday, first November, 1907, for one second-hand, single-track, through truss, steel Railway Bridge, 155 ft. to 165 ft. single span. The bridge must be in good condition and be able to safely carry a ten-wheel locomotive with 34 tons on a rigid wheel base of 14 feet 10 inches, followed by a rolling load of 3,000 pounds per lineal foot of track.

Tenders must give full description of bridge, stating age, condition, name of manufacturer, location, type, whether pin connected or riveted, clearance width and height, and weight; and if possible shall be accompanied by stress diagrams, blue print drawings and photographs.

Prices to be f. o. b. Lac du Bonnet Station, C. P. R., Manitoba. Canadian Customs paid, if any.

Each tender must be accompanied by an accepted cheque payable to the order of the City Treasurer, or cash deposit for a sum equal to 5% of the total amount of tender, which will be subject to forfeiture in case of failure on the part of the Contractor to enter into a written contract, with approved sureties, if called upon to do so. The lowest or any tender not necessarily accepted.

M. PETERSON,
Secretary.

The Office of the Board of Control, Winnipeg, October 19, 1907. 17-1t

U. S. ENGINEER OFFICE, Galveston, Tex., Oct. 21, 1907.—Sealed proposals, in duplicate, for jetty work at Aransas Pass, Tex., will be received here until 12 noon, Nov. 21, 1907, and then publicly opened. Information furnished on application. JOHN C. OAKES, Capt., Engrs. 17-4t

U. S. ENGINEER OFFICE, Portland, Ore., Oct. 18, 1907.—Sealed proposals for furnishing and delivering four hoisting engines, three locomotives and two boilers will be received here until 11 a. m., Nov. 18, 1907, and then publicly opened. Information furnished on application. S. W. ROESSLER, Lt.-Col., Engrs. 17-4t

U. S. ENGINEER OFFICE.—Newport, R. I., Oct. 23, 1907.—Sealed proposals for dredging in Newport Harbor, R. I., will be received here until 11 a. m., Nov. 22, 1907, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt. Col., Engrs. 17-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 21, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 3d day of December, 1907, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Nevada, Missouri, in accordance with drawings and specification, copies of which may be had at the office of the Custodian of Site at Nevada, Missouri, or at this Office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 17-2t

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